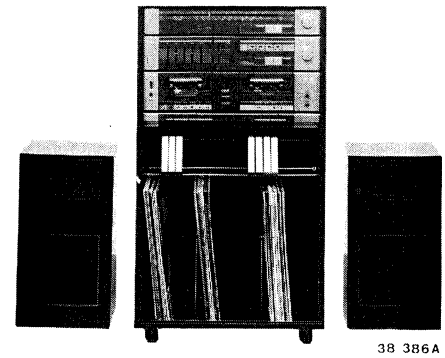
TAPC Rack ST5125/60/63/64/68/72/78/79/94

CX663

Service
Service
Service

For Servicing Information concerning the cassette mechanism refer to Service Manuals: "Recorder Tape Decks RT72, RT77 and RT1".

For Servicing Information concerning the record player refer to Service Manual F7046/00A.



38 386A

Service Manual

(GB) TECHNICAL DATA	(NL) SPECIFICATIES	(F) SPECIFICATIONS	(D) TECHNISCHE DATEN	(I) DATI TECNICI	
Power supply voltages	Voedingsspanningen	Alimentation	Versorgungsspannungen	Tensioni d'alimentazione	: 110,127,220,240 V 50/60 Hz~
Power consumption	Opgenomen vermogen	Puissance absorbée	Leistungsaufnahme	Potenza assorbita	: ≤ 110 W/max.
Dimensions	Afmetingen	Dimensions	Abmessungen	Dimensioni	: 450x880x360 mm approx.
Wave ranges:	Golfbereiken:	Gammes d'ondes:	Wellenbereiche:	Gamme d'onda:	
FM	FM	FM	UKW	FM	: 87.5-108 MHz
MW	MW	PO	MW	OM	: 520-1605 kHz (577- 187 m)
LW	LW	GO	LW	OL	: 150- 255 kHz (2000-1177 m)
Sensitivity:	Gevoeligheid:	Sensibilité:	Empfindlichtkeit:	Sensibilità:	
△f 75 kHz FM	△f 75 kHz FM	△f 75 kHz FM	△f 75 kHz FM	△f 75 kHz FM	: (1.6 µV mono, 26 dB S/N) (50 µV stereo, 46 dB S/N)
600 kHz AM	600 kHz AM	600 kHz AM	600 kHz AM	600 kHz AM	: (100 µV for 26 dB S/N)
Aerial input	Antenne ingang	Impédance d'antenne	Antennen-Impedanz	Ingresso antenna	: 75 Ω and 300 Ω
Output power (at 4 Ω load)	Uitgangsvermogen (4 Ω)	Puissance de sortie (4 Ω	Ausgangsleistung (4 Ω	Potenza d'uscita (con carico 4 Ω)	: 2× 13 W (1 kHz) D≤10%
Output impedance	Uitgangsimpedantie	Impédance de sortie	Ausgangsimpedanz	Impedenza d'uscita	: 4 Ω
Output impedance of headphones	Uitgangsimpedantie hoofdtelefoon	Impédance de sortie écouteurs	Kopfhörer-Ausgangs-impedanz	Impedenza d'uscita per cuffia	: 4-1000 Ω
Cassette deck	**Recorder**	**Magnétophone**	**Recorder**	**Piastra registratore**	
Speed	Snelheid	Vitesse	Geschwindigkeit	Velocità	: 4.76 cm/sec ± 2%
Wow and flutter	Wow en flutter	Pleurage et scintillement	Gleichlaufschwankungen	Wow e flutter	: ≤ 0.2%
Record player	**Platenspeler**	**Tourne-disque**	**Plattenspieler**	**Giradischi**	
Speed	Snelheid	Vitesse	Geschwindigkeit	Velocità	: $33^1/_3$-45 r.p.m
Wow and flutter	Wow en flutter	Pleurage et scintillement	Gleichlaufschwankungen	Wow e flutter	: ≤ 0.25%
Pick up cartridge	Element	Cartouche pick-up	Tonabnehmersystem	Testina	: GP215

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Subject to modification
(GB) (NL) 4822 725 20678 (F) (D) (I)
Printed in The Netherlands

Published by
Service Consumer Electronics

Recorders Tape-Deck RT-72

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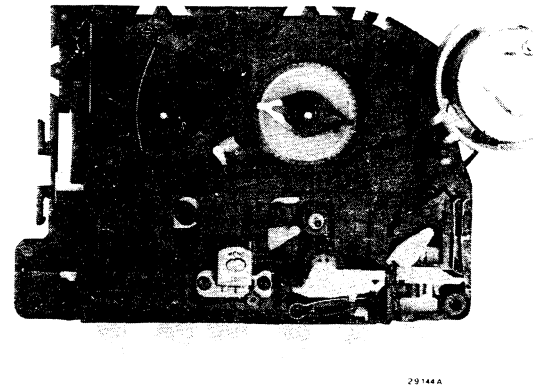

29144A

Service Manual

(GB)

The RT-72 mechanism is mechanically identical to the RT-1 mechanism WT07 (see supplement I-RT-1), however the motor is now screwed into the motor holder.
Moreover the possibility of Pause has been added.
For the construction see Fig. 1.
Under the erase head K2 a plate, service code number 4822 466 91402, has been added.

(F)

Du point de vue mécanique, le mécanique RT-72 est similaire au RT-1 WT07 (voir en supplement I-RT-1), à la différence que le moteur est à présent vissé sur le support. En outre la possibilité, d'un arrêt instantané a été ajoutée.
Voir en Fig. 1 pur ce qui est de la construction.
Une plaquette a été ajoutée sous la tête d'effacement K2-code: 4822 466 91402.

(I)

Dal punto di vista meccanica, il meccanismo RT-72 è simile al RT-1 WT07 (supplement I-RT-1), eccetto il fatto che il motore viene ora vitato sul sostegno. Inoltra la possibilità di pauza èstata create.
Vedi in Fig. 1 per quanto è della costruzione.
Una piastrina è stata agguinta sotto la testina di cancellazione K2 - numero di codice:
4822 466 91402.

73	4822 358 20175	K1	4822 249 10186
75	4822 403 51905	K2	4822 249 40093
80	4822 403 51906	M1	4822 361 20394
100	4822 502 11434		
105	4822 459 80253		

(NL)

Het RT-72 loopwerk is mechanisch gelijk aan het RT-1 loopwerk WT07 (zie supplement I-RT-1), met dat verschil dat de motor nu op de motorhouder geschroefd is. Bovendien is een pauze mogelijkheid toegevoegd.
Voor constructie zie Fig. 1.
Onder de wiskop (K2) is een plaatje toegevoegd, service codenummer 4822 466 91402.

(D)

Der RT-72 Mechanismus ist dem RT-1 Mechanismus WT07 (siehe Supplement I-RT-1) gleich, jedoch der Motor ist jetzt auf dem Motorhalter geschraubt.
Ausserdem ist eine Pausemöglichkeit hinzugefügt worden.
Für die Konstruktion siehe Fig. 1.
Unter dem Löschkopf K2 ist eine Platte, Kodenummer 4822 466 91402 hinzugefügt worden.

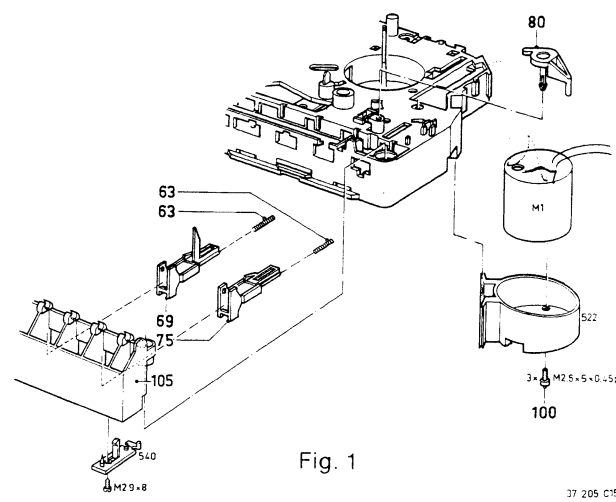

Fig. 1

37 205 015

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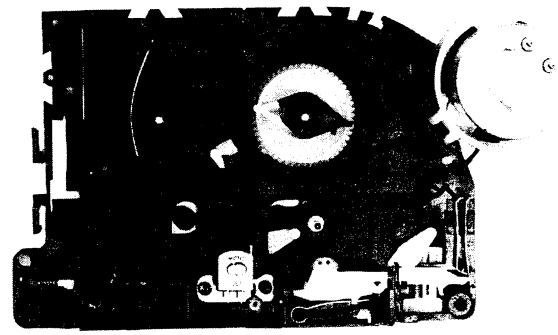
CS 102 181

Recorders Tape-Deck RT-77

Service
Service
Service



29144A

Service Manual

(GB)

The RT-77 mechanism is mechanically identical to the RT-1 mechanism WT07 (see supplement I - RT-1), however the motor is now screwed into the motor holder and item 64 + 63, 505 and 506 have been deleted. Under the erase head K2 a plate, service code number 4822 466 91402, has been added.
For the construction see Fig. 1.

(F)

Du point de vue mécanique, le mécanique RT-77 est similaire au RT-1 WT07 (voir en supplement I - RT-1), à la différence que le moteur est à présent vissé sur le support et les repères 64 + 63, 505 et 506 sont supprimes.
Une plaquette a été ajoutée sous la tête d'effacement K2-code: 4822 466 91402.
Voir en Fig. 1 pour ce qui est de la construction.

(I)

Dal punto di vista meccanica, il meccanismo RT-77 è simile al RT-1 WT07 (supplement I - RT-1), eccetto il fatto che il motore viene ora vitato sul sostegno e le posizione 64 + 63, 505 e 506 sono soppressi.
Una piastrina è stata aggiunta sotto la testina di cancellazione K2 - numero di codice:
4822 466 91402.
Vedi in Fig. 1 per quanto è della costruzione.

(NL)

Het RT-77 loopwerk is mechanisch gelijk aan het RT-1 loopwerk WT07 (zie supplement I - RT-1), met dat verschil dat de motor nu op de motorhouder geschroefd is en posities 64 + 63, 505 en 506 vervallen zijn.
Onder de wiskop (K2) is een plaatje toegevoegd, service codenummer 4822 466 91402.
Voor constructie zie Fig. 1.

(D)

Der RT-77 Mechanismus ist dem RT-1 Mechanismus WT07 (siehe Supplement I - RT-1) gleich, jedoch der Motor ist jetzt auf dem Motorhalter geschraubt und Positionen 64 + 63, 505 und 506 sind abgeführt.
Unter dem Löschkopf K2 ist eine Platte, Kodenummer 4822 466 91402 hinzugefügt worden.
Für die Konstruktion siehe Fig. 1.

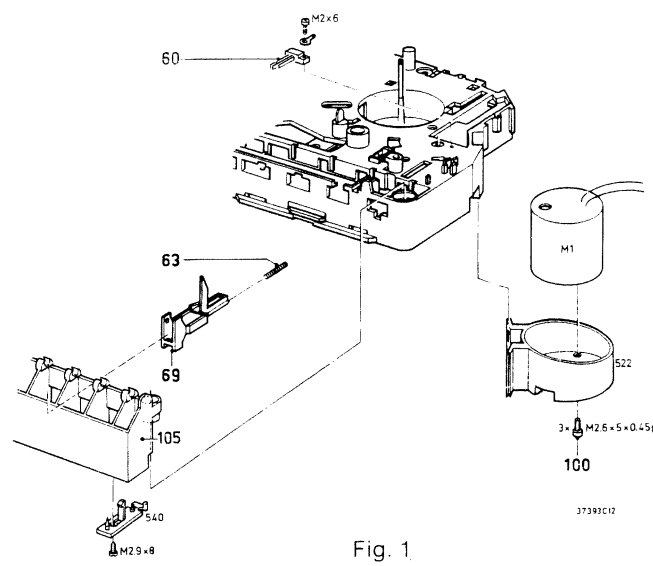


Fig. 1

60	4822 276 11097	K1	4822 249 10195
73	4822 358 20175	K2	4822 249 70640
100	4822 502 11434	M1	4822 361 20394
105	4822 459 80253		

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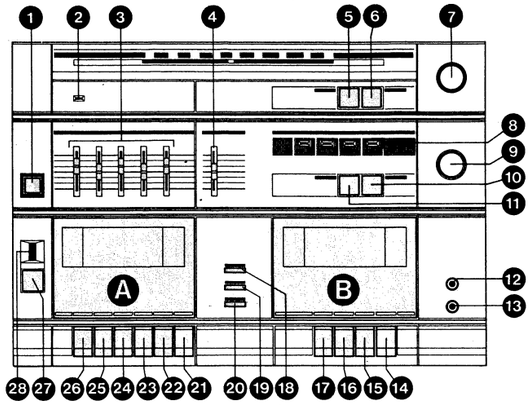
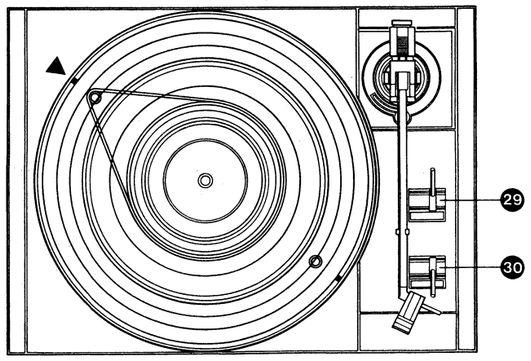
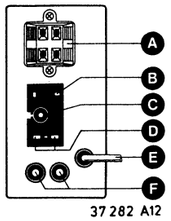




37 283 B12



37 282 A12

GB

1	On/off switch		SK1
2	FM stereo indicator		6111
3	Equalizer controls	63 Hz	3315
		250 Hz	3325
		1 kHz	3335
		4 kHz	3345
		16 kHz	3355
4	Balance control		3370
5	MW/LW selection button		SK79
6	AM/FM selection button		SK78
7	Tuning knob		
8	Mode indicators	Phono	6333
		Tuner	6334
		CD/TV	6331
		Cass.	6332
9	Volume control		3369
10	Mono/Rif selection button		SK76
11	CD/TV function button		SK77
12	Terminal socket stereo headphone 4-1000 Ω		BU2
13	Terminal socket mono microphone		BU1
14	Play button		
15	Stop/Eject button		
16	Wind/Cue button		
17	Rewind/Review button		
18	Dubbing B → A button		SK74
19	Noise reduction button		SK73
20	Tape type button		SK72
21	Pause button		
22	Play button		
23	Stop/Eject button		
24	Wind/Cue button		
25	Rewind/Review button		
26	Recording button		
27	Zero reset button		
28	Counter		
29	Cue lever		
30	Speed selector switch		SK-H
A	Terminals for loudspeakers 4 Ω		BU5-6
B	Terminal sockets for AM aerial and earth		BU4
C	Terminal sockets for FM aerial, 75 Ω		BU4
D	Terminal sockets for FM aerial, 300 Ω		BU4
E	Mains lead		
F	Terminal sockets for CD/TV		BU3

NL

1	Aan/Uit schakelaar		SK1
2	FM stereo indicator		6111
3	Klankkleurregelaars	63 Hz	3315
		250 Hz	3325
		1 kHz	3335
		4 kHz	3345
		16 kHz	3355
4	Balanceregelaar		3370
5	Keuzetoets MW/LW		SK79
6	Keuzetoets AM/FM		SK78
7	Afstemknop		
8	Mode indicators	Phono	6333
		Tuner	6334
		CD/TV	6331
		Cass.	6332
9	Geluidssterkteregelaar		3369
10	Mono/Rif keuzetoets		SK76
11	CD/TV functietoets		SK77
12	Aansluitbus stereo hoofdtelefoon 4-1000 Ω		BU2
13	Aansluitbus mono microfoon		BU1
14	Weergeeftoets		
15	Stop/Uitwerptoets		
16	Snelspoeltoets Wind/Cue		
17	Snelspoeltoets Rewind/Review		
18	Toets Dubbing B → A		SK74
19	Ruisonderdrukkingstoets		SK73
20	Keuzetoets voor bandsoort		SK72
21	Pauzetoets		
22	Weergeefknop		
23	Stop/Uitwerptoets		
24	Snelspoeltoets Wind/Cue		
25	Snelspoeltoets Rewind/Review		
26	Opneemtoets		
27	Nulsteltoets		
28	Bandteller		
29	Hefboom		
30	Toerentalkeuze		SK-H
A	Luidsprekeraansluitklemmen 4 Ω		BU5-6
B	Aansluitbussen voor AM-antenne en aarde		BU4
C	Aansluitbus voor FM-antenne, 75 Ω		BU4
D	Aansluitbus voor FM-antenne, 300 Ω		BU4
E	Netsnoer		
F	Aansluitbussen CD/TV		BU3

F

1	Commutateur Marche/Arrêt		SK1
2	Indicateur lumineux FM stéréo		6111
3	Egaliseur graphique 5 bandes	63 Hz	3315
		250 Hz	3325
		1 kHz	3335
		4 kHz	3345
		16 kHz	3355
4	Balans stéréo		3370
5	Sélecteur de gamme d'ondes PO/GO		SK79
6	Sélecteur de modulation AM/FM		SK78
7	Bouton d'accord		
8	Voyants lumineux par Signalisation des saurces	Phono	6333
		Tuner	6334
		CD/TV	6331
		Cass.	6332
9	Volume sonore		3369
10	Interrupteur Mono/Rif		SK76
11	Sélecteur CD/TV		SK77
12	Prise pour casque stéréo 4-1000 Ω		BU2
13	Prise pour microphone mono		BU1
14	Touche démarrage		
15	Touche d'arrêt/éjection		
16	Touche bobinage rapide avant		
17	Touche bobinage rapide arrière		
18	Bouton de duplication Dubbing B → A		SK74
19	Commutateur de réducteur du bruit		SK73
20	Commande sélection type de bande		SK72
21	Touche pause		
22	Touche démarrage		
23	Touche d'arrêt/éjection		
24	Touche bobinage rapide avant		
25	Touche bobinage rapide arriére		
26	Touche d'enregistrement		
27	Bouton de remise à zéro du compteur		
28	Compteur		
29	Lève bras		
30	Sélecteur de vitesse		SK-H
A	Prises pour haut-parleurs 4 Ω		BU5-6
B	Prise pour antenne extérieur AM et terre		BU4
C	Prise pour antenne extérieur FM, 75 Ω		BU4
D	Prise pour antenne FM, 300 Ω		BU4
E	Cordan secteur		
F	Prises d'entrées auxilliaires CD/TV		BU3

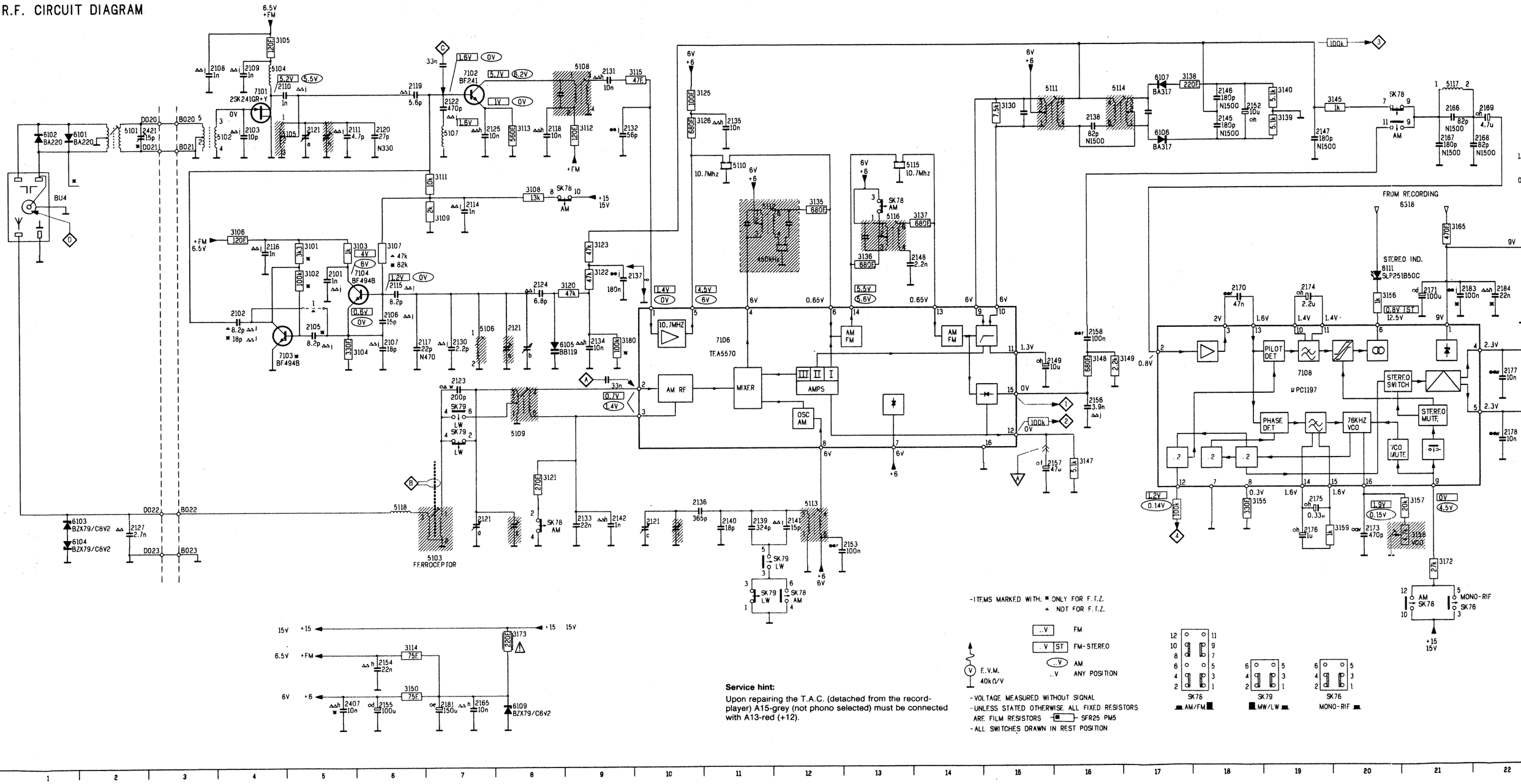
D

1	Netz-Ein/Aus-Schalter		SK1
2	FM stereo-Anzeige		6111
3	Klangfilter	63 Hz	3315
		250 Hz	3325
		1 kHz	3335
		4 kHz	3345
		16 kHz	3355
4	Balance		3370
5	MW/LW Wellenbereichsschalter		SK79
6	AM/FM Wählschalter		SK78
7	Tuning-Knopf		
8	Programmquellen-Anzeiger	Phono	6333
		Tuner	6334
		CD/TV	6331
		Cass.	6332
9	Lautstärke-Einsteller		3369
10	Mono/Rif Schalter		SK76
11	CD/TV Wiedergabe-Schalter		SK77
12	Anschluss für Stereokopfhörer 4-1000 Ω		BU2
13	Anschluss für ein Mono-Mikrofon		BU1
14	Wiedergabe-Schalter		
15	Stop/Eject Taste		
16	Wind/Cue schneller Bandvorlauf		
17	Rewind/Review schneller Bandrücklauf		
18	Dubbing B → A-Schalter		SK74
19	Noise Red-Schalter		SK73
20	Bandsorten-Einstellung.		SK72
21	Pause-Schalter		
22	Wiedergabe/Start-Schalter		
23	Stop/Eject-Schalter		
24	Schneller Bandvorlauf		
25	Schneller Bandrücklauf		
26	Record-Schalter		
27	Rückstelltaste		
28	Zählwerk		
29	Tonarmlift		
30	U/min. Drehzahlwähler		SK-H
A	Lautsprecher-Ausgänge 4 Ω		BU5-6
B	Anschluss für eine AM-Antenne mit Erde		BU4
C	Anschluss für eine FM-Antenne, 75 Ω		BU4
D	Anschluss für eine FM-Antenne, 300 Ω		BU4
E	Netzanschlussleitung		
F	CD/TV-Anschlussbuchsen		BU3

I

1	Interruttore acceso/spento		SK1
2	Indicatore FM stereo		6111
3	Controlli della tonalità	63 Hz	3315
		250 Hz	3325
		1 kHz	3335
		4 kHz	3345
		16 kHz	3355
4	Controllo del bilanciamento		3370
5	Selettore MW/LW		SK79
6	Selettore AM/FM		SK78
7	Manopola di sintonia		
8	Indicatori del modo	Phono	6333
		Tuner	6334
		CD/TV	6331
		Cass.	6332
9	Controllo del volume		3369
10	Selettore Mono/Rif		SK76
11	Selettore CD/TV		SK77
12	Presa per cuffia stereo phones 4-1000 Ω		BU2
13	Presa per microfono mono		BU1
14	Tasto di riproduzione		
15	Tasto di arresto/espulsione		
16	Tasto di avvolgimento rapido		
17	Tasto di riavvolgimento rapido		
18	Tasto di capiaturo Dubbing B → A		SK74
19	Tasto di soppressione del fruscio		SK73
20	Selettore del tipo di nastro		SK72
21	Tasto di pausa		
22	Tasto di riproduzione/avvolgimento		
23	Tasto di arresto/espulsione		
24	Tasto di avvolgimento rapido		
25	Tasto di avvolgimento rapido		
26	Tasto di registrazione		
27	Tasto di azzeramento		
28	Contanastro		
29	Leva		
30	Selettore dei giri		SK-H
A	Morsetti per casse acustiche 4 Ω		BU5-6
B	Prese per antenno AM e terro		BU4
C	Prese per antenna FM, 75 Ω		BU4
D	Prese per antenna FM, 300 Ω		BU4
E	Cordone di rete		
F	Prese CD/TV		BU3

R.F. CIRCUIT DIAGRAM



Service hint:

Upon repairing the T.A.C. (detached from the record-player) A15-grey (not phono selected) must be connected with A13-red (+12).

- ITEMS MARKED WITH: * ONLY FOR F.T.Z.
  ▲ NOT FOR F.T.Z.
- V FM
- V ST FM-STEREO
- V AM ANY POSITION
- F.V.M. 40kΩ/V
- VOLTAGE MEASURED WITHOUT SIGNAL
- UNLESS STATED OTHERWISE ALL FIXED RESISTORS ARE FILM RESISTORS ▭ SFR25 PM5
- ALL SWITCHES DRAWN IN REST POSITION

RF part

+15 = 15 V
+FM= 6.5 V
+6 = 6 V

7101

9	0 V		
D	5.2 V	(5.5 V)	
S	⊥		

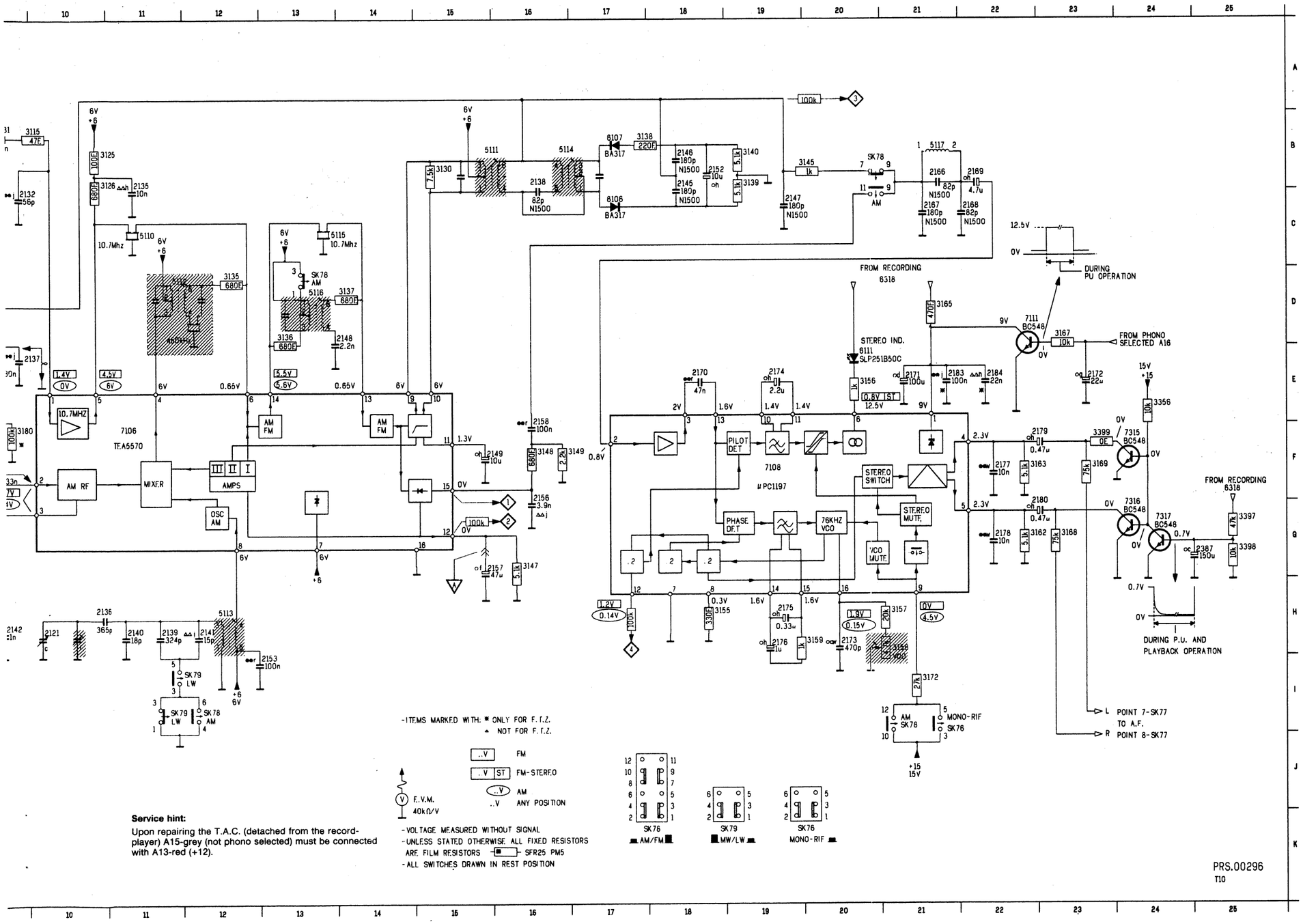
7102

e	1 V
b	1.6 V
c	5.7 V

E19 2179 F23 2387 G25 3103 D 6 3108 C 8 3114 J 6 3123 D 9 3136 D13 3145 B20 3155 H18 3162 G23 3169 F23 3397 G25 5103 I 7 5108 B 9 5113 H12 5118 H 6 6105 F 9 7101 B 4 7111 D22 SK76 I21 SK78 I12
H19 2180 G23 2407 K 5 3104 F 6 3109 D 7 3115 B10 3125 B11 3137 D14 3147 G16 3156 E20 3163 F23 3172 I21 3398 G25 5104 B 4 5109 G 8 5114 B16 6101 C 2 6106 C17 7102 B 7 7315 F24 SK78 H 8 SK79 F 7
H19 2181 K 7 2421 C 3 3105 A 5 3111 C 7 3120 E 9 3126 B11 3138 B17 3148 F16 3157 H21 3165 D21 3173 J 8 3399 K23 5105 C 5 5110 C11 5111 B16 6102 C 1 6107 B17 7103 F 5 7316 G24 SK78 I21 SK79 G 7
F22 2183 E21 3101 D 5 3106 D 4 3112 C 9 3121 H 8 3130 B15 3139 B19 3149 F17 3158 H21 3167 D23 3180 F 9 5101 C 2 5106 E 7 5111 B16 6103 H 2 6109 K 8 7104 E 6 7317 G24 SK78 C 9 SK79 I12
G22 2184 E22 3102 E 5 3107 D 6 3113 C 8 3122 E 9 3135 D12 3140 B19 3150 K 6 3159 H20 3168 G23 3356 E24 5102 C 4 5107 C 7 5112 D11 5117 B21 6104 H 2 6111 E20 7106 F11 BU4 C 1 SK78 D13 SK79 I11

10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25

A B C D E F G H I J K



- ITEMS MARKED WITH: * ONLY FOR F.I.Z.
  ▲ NOT FOR F.I.Z.
- ..V FM
- ..V ST FM-STEREO
- (..V) AM
- ..V ANY POSITION
- V E.V.M. 40kΩ/V
- VOLTAGE MEASURED WITHOUT SIGNAL
- UNLESS STATED OTHERWISE ALL FIXED RESISTORS ARE FILM RESISTORS ▬ SFR25 PM5
- ALL SWITCHES DRAWN IN REST POSITION

SK76 AM/FM
SK79 MW/LW
SK76 MONO-RIF

Service hint:

Upon repairing the T.A.C. (detached from the record-player) A15-grey (not phono selected) must be connected with A13-red (+12).

PRS.00296
T10

RF part

+15 = 15 V
+FM= 6.5 V
+6 = 6 V

7101

9	0 V	
D	5.2 V	5.5 V
S	⊥	

7102

e	1 V	0 V
b	1.6 V	0 V
c	5.7 V	6.2 V

7104

e	0.6 V	0 V
b	1.2 V	0 V
c	4 V	6 V

7106

1	1.4 V	0 V
2	0.7 V	1.4 V
3	0.7 V	1.4 V
4	6 V	
5	4.5 V	6 V
6	0.65 V	
7	6 V	
8	6 V	
9	6 V	
10	6 V	
11	1.3 V	
12	0 V	
13	0.65 V	
14	5.5 V	5.6 V
15	0 V	
16	⊥	

7108

1	9 V	
2	0.8 V	
3	2 V	
4	2.3 V	
5	2.3 V	
6	12.5 V	0.8 V ST
7	⊥	
8	0.3 V	
9	0 V	4.5 V
10	1.4 V	
11	1.4 V	
12	1.2 V	0.14 V
13	1.6 V	
14	1.6 V	
15	1.6 V	
16	1.9 V	0.15 V

7111

e	⊥
b	0 V
c	9 V

7315

e	⊥
b	0 V
c	0 V

7316

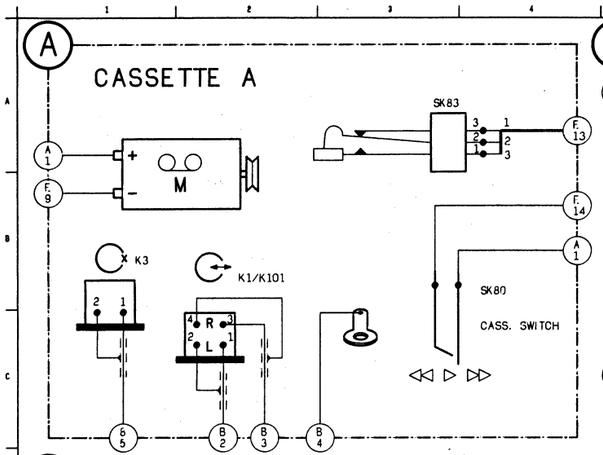
e	⊥
b	0 V
c	0 V

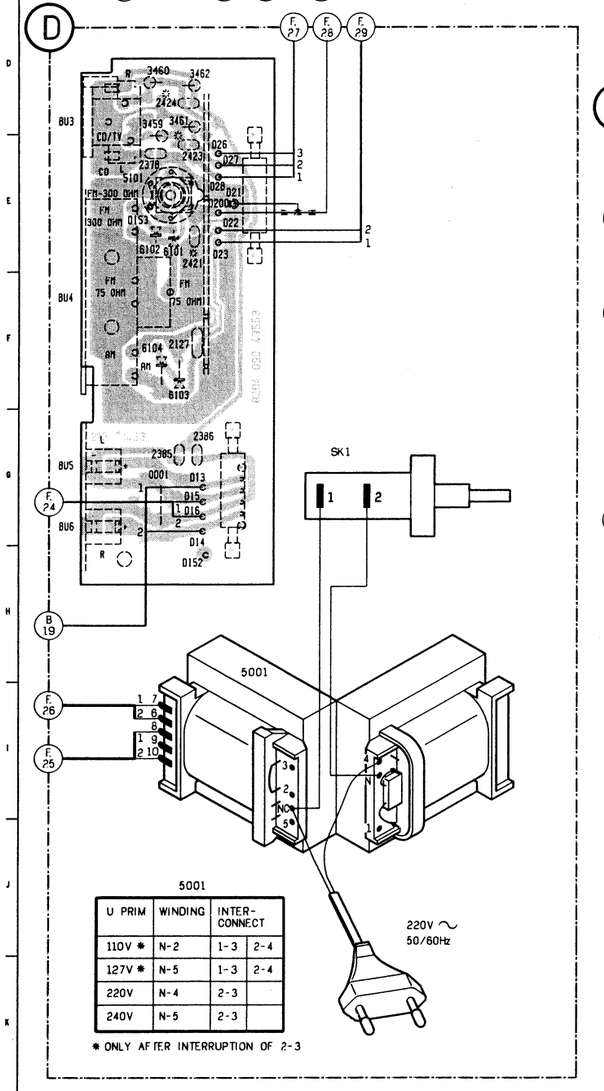
7317

e	⊥
b	0.7 V
c	0 V

Service hint:

Upon repairing the T.A.C. (detached from the record-player) A15-grey (not phono selected) must be connected with A13-red (+12).

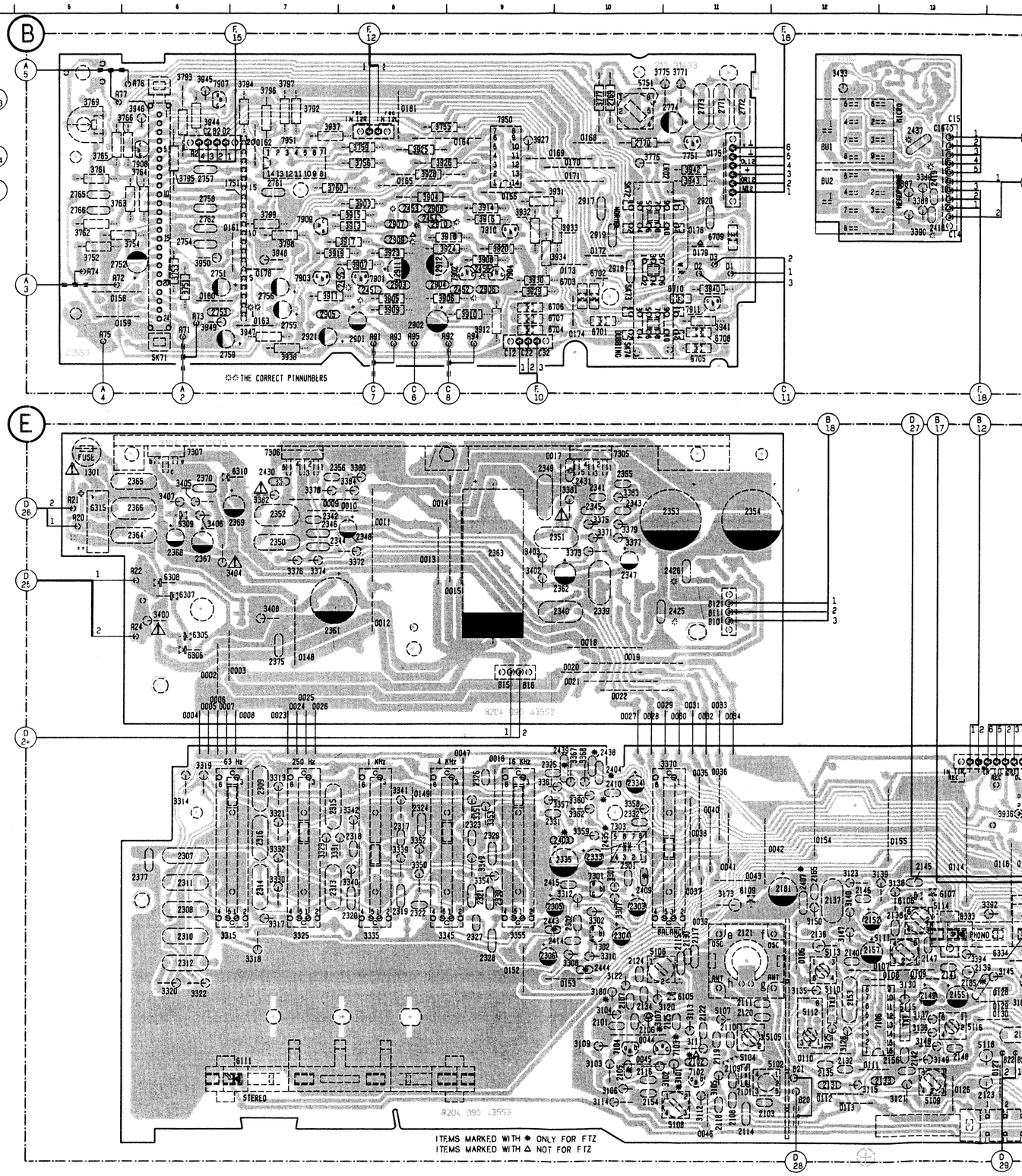




5001

U PRIM	WINDING	INTER-CONNECT	
110V *	N-2	1-3	2-4
127V *	N-5	1-3	2-4
220V	N-4	2-3	
240V	N-5	2-3	

* ONLY AFTER INTERRUPTION OF 2-3



SK83

SK80

CASS. SWITCH

B

THE CORRECT PINNUMBERS

C

CASSETTE B

M

SK82

SK75

K2/K102

SK81

CASS. SWITCH

E

FUSE

220V ~
50/60Hz

STEREO

PU HEAD
TO RECORD PLAYER

L R

BLACK

WHITE

RED

TO RECORD PLAYER

NOT PHONO SELECTED

PHONO SELECTED

+12

GREY

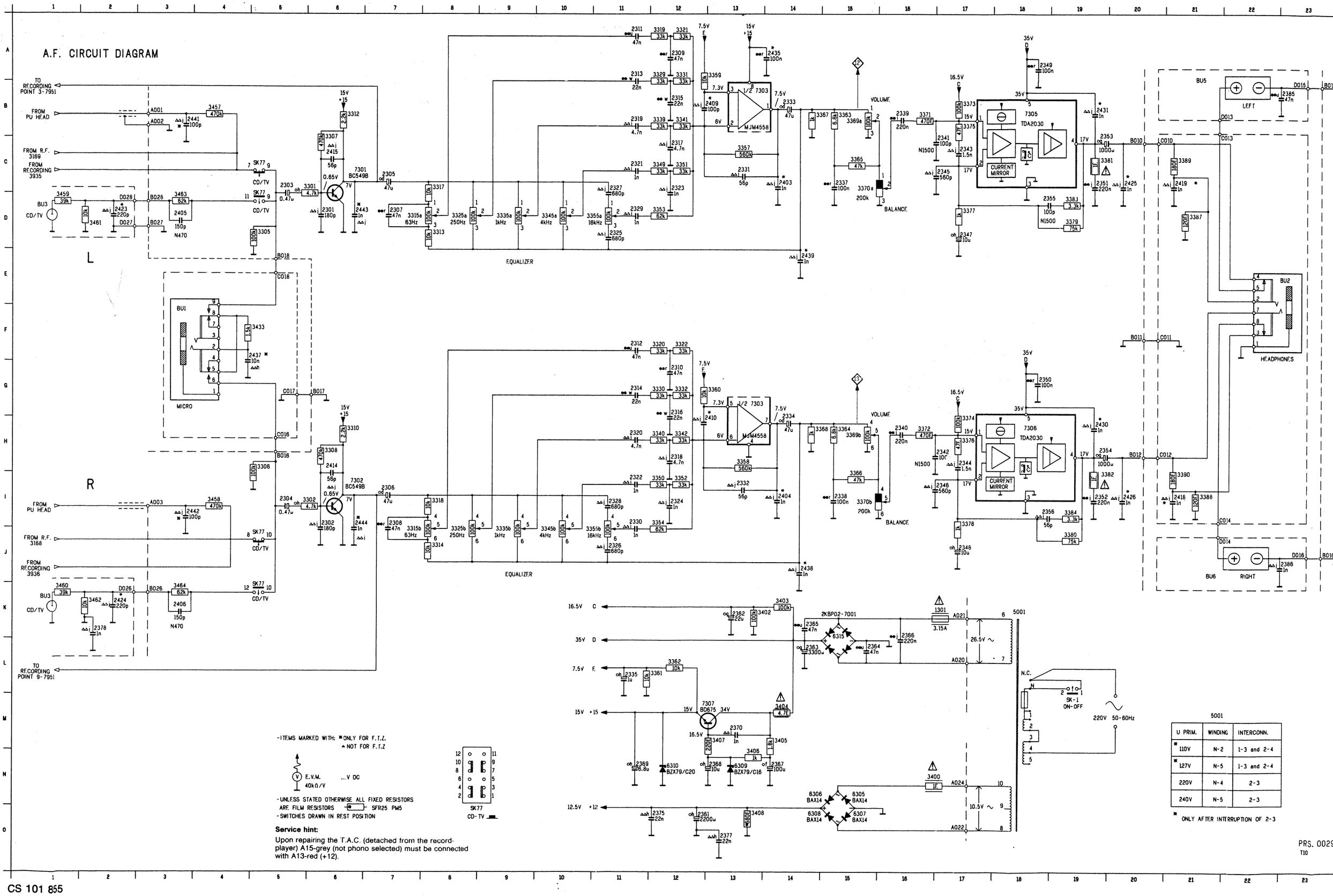
GREY RED BROWN BLACK

ITEMS MARKED WITH * ONLY FOR FTZ
ITEMS MARKED WITH △ NOT FOR FTZ

F1552/60
PC.PCB.00065
06-13-85 T3

CS 101 854

A.F. CIRCUIT DIAGRAM



- ITEMS MARKED WITH: * ONLY FOR F.T.Z.
  ▲ NOT FOR F.T.Z
- V E.V.M. 40kΩ/V ... V DC
- UNLESS STATED OTHERWISE ALL FIXED RESISTORS ARE FILM RESISTORS ▭ SFR25 PM5
- SWITCHES DRAWN IN REST POSITION

SK77 CD-TV

Service hint:

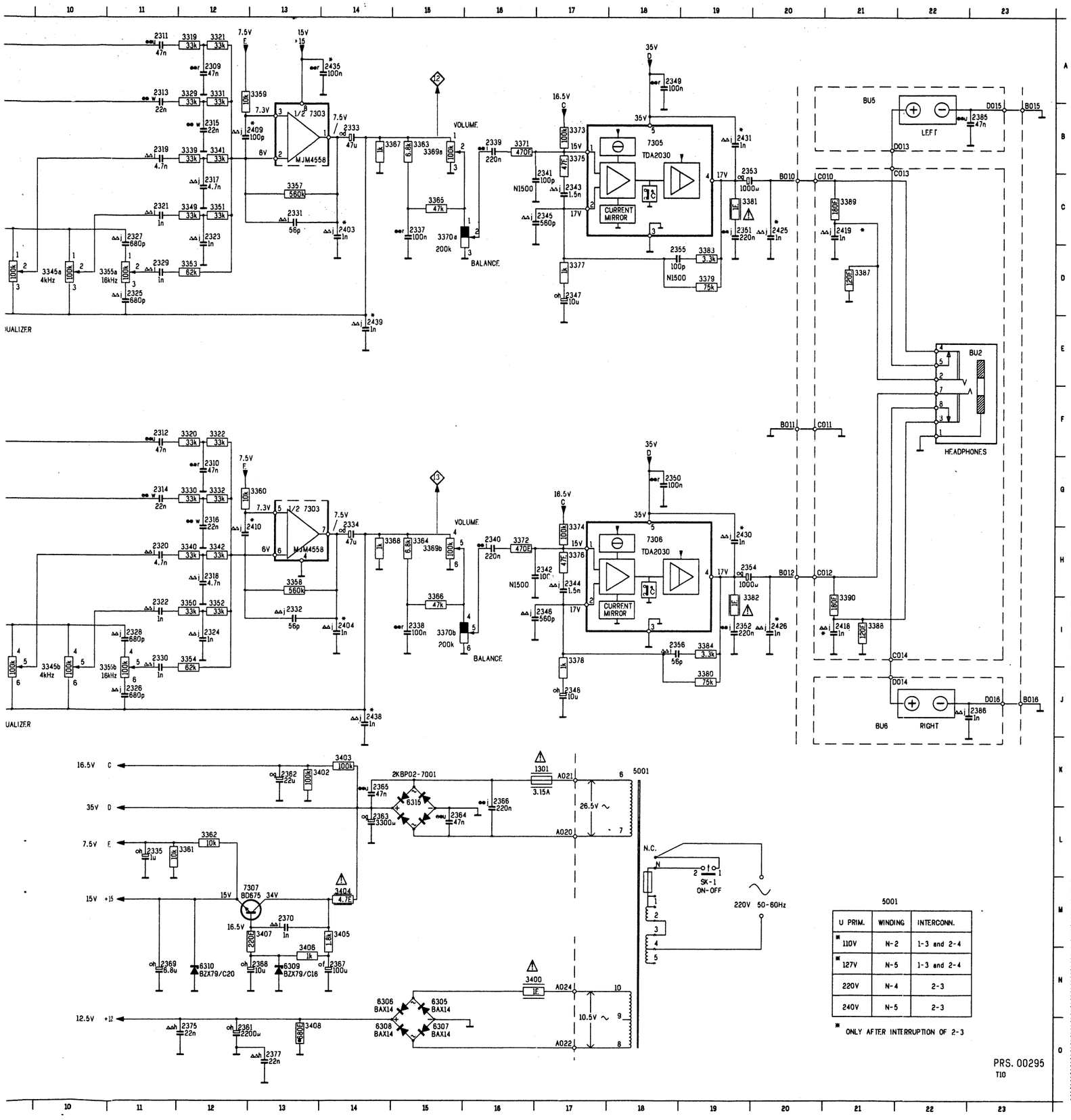
Upon repairing the T.A.C. (detached from the record-player) A15-grey (not phono selected) must be connected with A13-red (+12).

5001

U PRIM.	WINDING	INTERCONN.
* 110V	N-2	1-3 and 2-4
* 127V	N-5	1-3 and 2-4
220V	N-4	2-3
240V	N-5	2-3

* ONLY AFTER INTERRUPTION OF 2-3

PRS. 00295
T10



5001		
U PRIM.	WINDING	INTERCONN.
* 110V	N-2	1-3 and 2-4
* 127V	N-5	1-3 and 2-4
220V	N-4	2-3
240V	N-5	2-3

* ONLY AFTER INTERRUPTION OF 2-3

1301	K17	3368	H15
2301	D 6	3369	B15
2302	I 6	3369	B15
2303	C 5	3370	I15
2304	I 5	3370	C15
2305	C 7	3371	B16
2306	I 7	3372	H16
2307	D 7	3373	B17
2308	I 7	3374	H17
2309	A12	3375	B17
2310	G12	3376	H17
2311	A11	3377	D17
2312	F11	3378	I17
2313	A11	3379	D19
2314	G11	3380	J19
2315	B12	3381	C19
2316	G12	3382	I20
2317	C12	3383	D19
2318	H12	3384	I19
2319	B11	3387	D21
2320	H11	3388	I21
2321	C11	3389	C21
2322	I11	3390	I21
2323	C12	3400	N17
2324	I12	3402	K14
2325	D11	3403	K14
2326	J11	3404	M14
2327	C11	3405	M14
2328	I11	3406	N13
2329	D11	3407	M13
2330	I11	3408	O13
2331	C13	3433	F 5
2332	I13	3457	B 4
2333	B14	3458	I 4
2334	G14	3459	D 1
2335	L11	3460	K 1
2337	C15	3461	D 2
2338	I15	3462	K 2
2339	B16	3463	D 3
2340	H16	3464	K 3
2341	C17	5001	K18
2342	H17	6305	N15
2343	C17	6306	N14
2344	H17	6307	O15
2345	C17	6308	O14
2346	I17	6309	N13
2347	D17	6310	N12
2348	J17	6315	K15
2349	A18	7301	C 6
2350	G18	7302	I 6
2351	C19	7307	M13
2352	I19	BU1	F 3
2353	B19	BU2	E23
2354	H19	BU3	K 1
2355	D18	BU3	D 1
2356	I18	BU5	R21
2361	D12	BU6	J21
2362	K13	SK-1	M19
2363	L14	SK77	C 5
2364	L15	SK77	J 5
2365	K14	SK77	K 5
2366	K16	SK77	D 5
2367	N14		
2368	N13		
2369	N11		
2370	M13		
2375	O12		
2377	O13		
2378	K 2		
2385	B23		
2386	J23		
2403	C14		
2404	I14		
2405	D 3		
2406	K 3		
2409	B13		
2410	H13		
2414	H 6		
2415	C 6		
2418	I21		
2419	C21		
2423	D 2		
2424	K 2		
2425	C20		
2426	I20		
2430	H19		
2431	B19		
2435	A14		
2437	F 5		
2438	J14		
2439	E14		
2441	B 4		
2442	I 4		
2443	D 6		
2444	I 6		
3301	C 6		
3302	I 6		
3305	H 5		
3306	H 5		
3307	B 6		
3308	H 6		
3310	H 6		
3312	B 6		
3313	D 8		
3314	J 8		
3315	J 7		
3315	D 7		
3317	C 8		
3318	I 8		
3319	A12		
3320	F12		
3321	A12		
3322	F12		
3325	J 8		
3325	D 8		
3329	A12		
3330	G12		
3331	A12		
3332	G12		
3335	J 9		
3335	D 9		
3339	B12		
3340	H12		
3341	B12		
3342	H12		
3345	D10		
3345	J10		
3349	C12		
3350	I12		
3351	C12		
3352	I12		
3353	D12		
3354	I12		
3355	J10		
3355	D10		
3357	C13		
3358	H13		
3359	A13		
3360	O13		
3361	L12		
3362	L12		
3363	B15		
3364	H15		
3365	C15		
3366	I15		
3367	B15		

AF part

7301

e	⊥
b	0.65 V
c	7 V

7302

e	⊥
b	0.65 V
c	7 V

7303

1	7.5 V
2	6 V
3	7.3 V
4	⊥
5	7.3 V
6	6 V
7	7.5 V
8	15 V

7305

1	15 V
2	17 V
3	⊥
4	17 V
5	35 V

7306

1	15 V
2	17 V
3	⊥
4	17 V
5	35 V

7307

e	15 V
b	16.5 V
c	34 V

	Carbon film	0.2 W	70°C 5%
	Carbon film	0.33 W	70°C 5%
	Metal film	0.33 W	70°C 5%
	Carbon film	0.5 W	70°C 5%
	Carbon film	0.67 W	70°C 5%
	Carbon film	1.15 W	70°C 5%

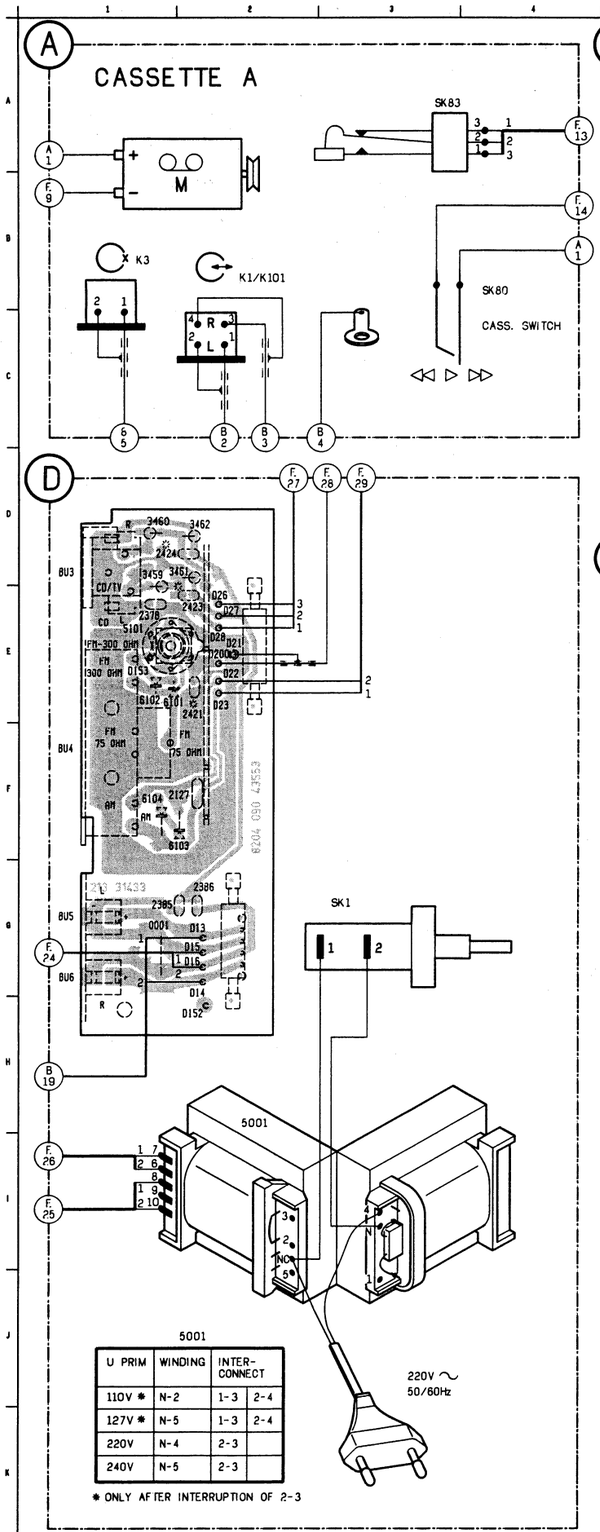
	Ceramic plate Tuning ⩽ 120 pF NP.0	2%
	Others	−20/+80%
	Polyester flat foil	10%
	Metalized polyester flat film	10%
	Polyester flat foil small size (Mylar)	10%
	Polysterene film/foil	1%
	Tubular ceramic	
	Miniature single	
	Subminiature tantalum	± 20%

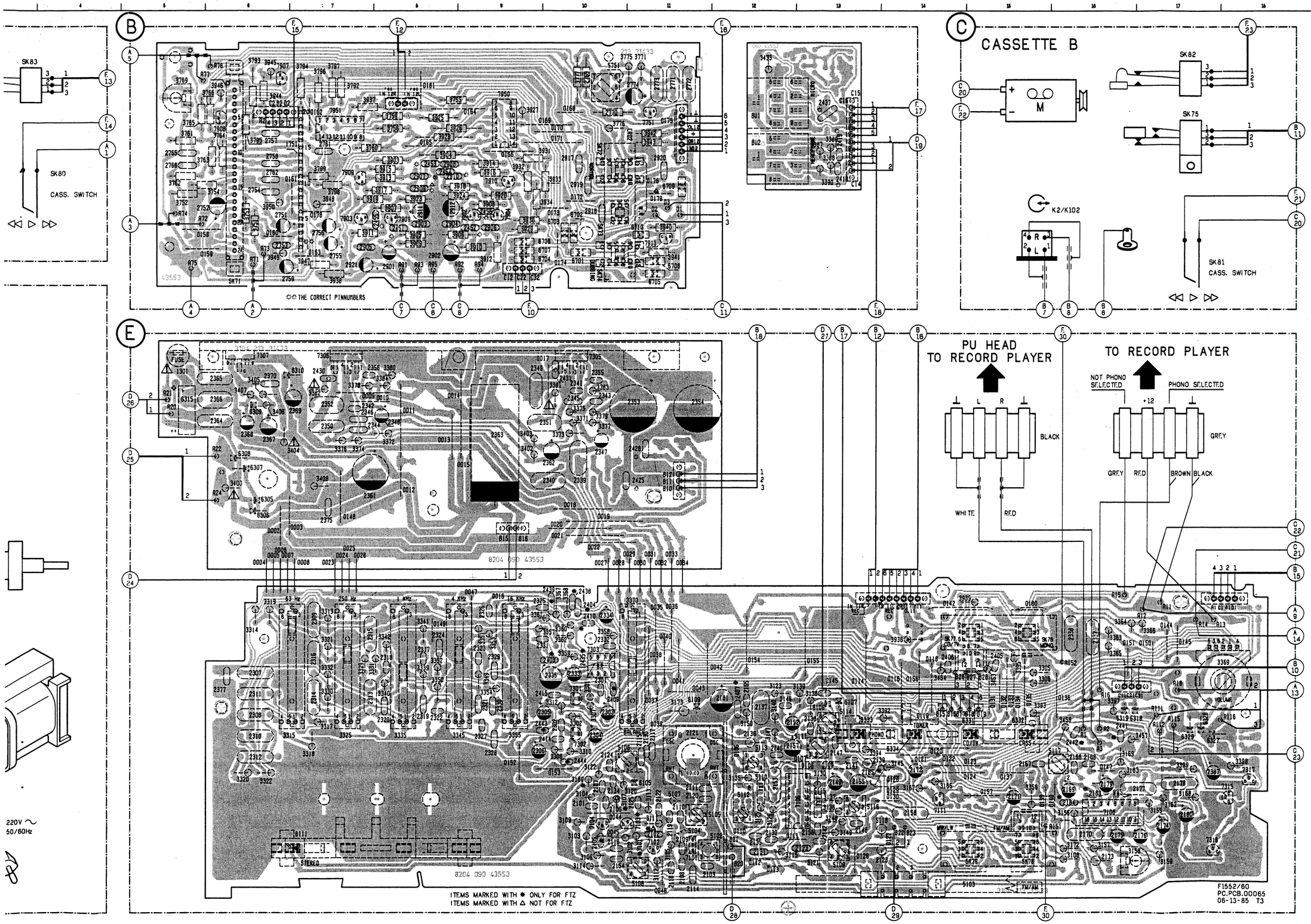
*a	= 2,5 V
b	= 4 V
c	= 6,3 V
d	= 10 V
e	= 16 V
f	= 25 V
g	= 40 V
h	= 63 V
j	= 100 V
l	= 125 V
m	= 150 V
n	= 160 V
q	= 200 V
r	= 250 V
s	= 300 V
t	= 350 V
u	= 400 V
v	= 500 V
w	= 630 V
x	= 1000 V
A	= 1,6 V
B	= 6 V
C	= 12 V
D	= 15 V
E	= 20 V
F	= 35 V
G	= 50 V
H	= 75 V
I	= 80 V

27 037A/C

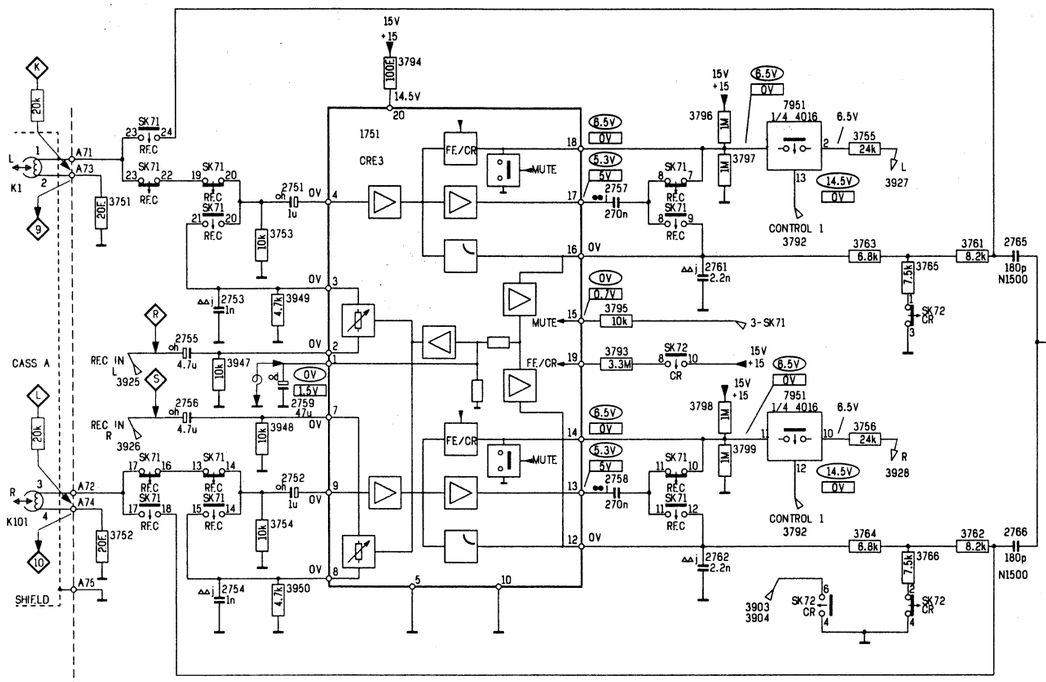
Service hint:

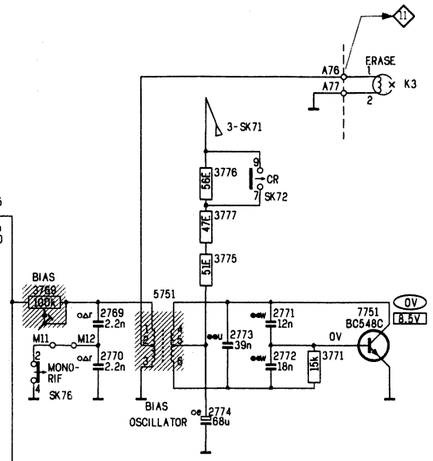
Upon repairing the T.A.C. (detached from the record-player) A15-grey (not phono selected) must be connected with A13-red (+12).

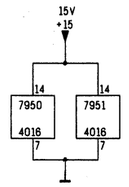


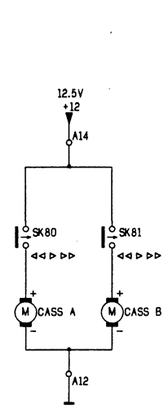

SK83
SK80
CASS. SWITCH
B
C
CASSETTE B
SK82
SK75
K2/K102
SK81
CASS. SWITCH
E
FUSE
THE CORRECT PINNUMBERS
PU HEAD
TO RECORD PLAYER
TO RECORD PLAYER
NOT PHONO SELECTED
PHONO SELECTED
+12
BLACK
GREY
GREY
RED
BROWN
BLACK
WHITE
RED
220V ~
50/60Hz
STEREO
ITEMS MARKED WITH * ONLY FOR FTZ
ITEMS MARKED WITH △ NOT FOR FTZ
F1552/60
PC.PCB.00065
06-13-85 T3

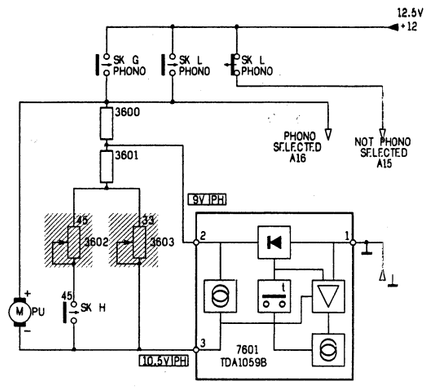
RECORDING-PHONO CIRCUIT DIAGRAM

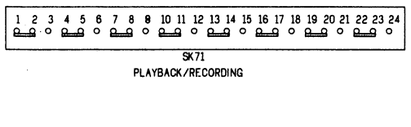




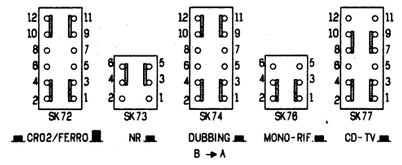


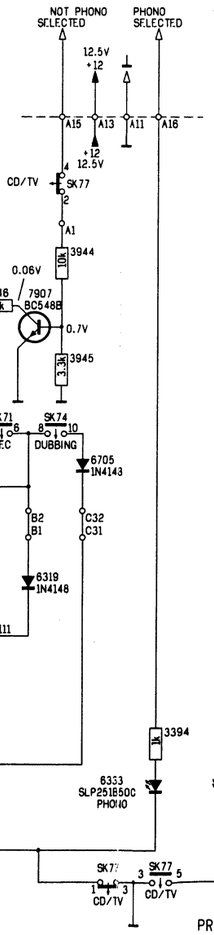


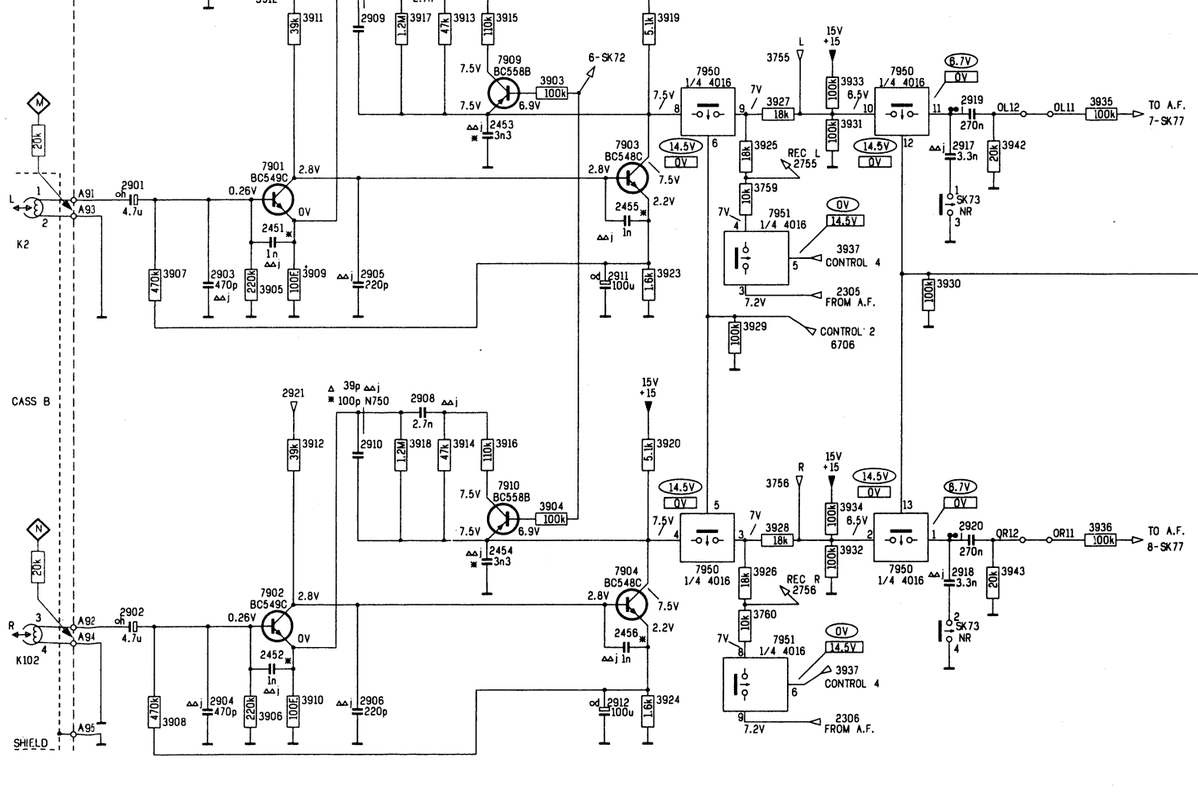


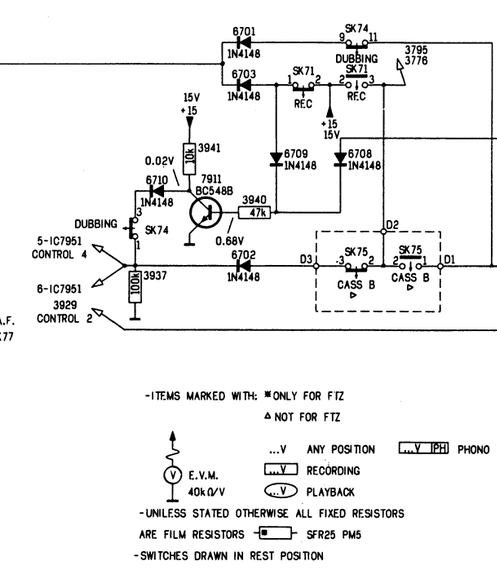


P.B. REC









-ITEMS MARKED WITH: *ONLY FOR FTZ
△ NOT FOR FTZ

E.V.M. 40kΩ/V

...V ANY POSITION
...V RECORDING
...V PLAYBACK
...V PH PHONO

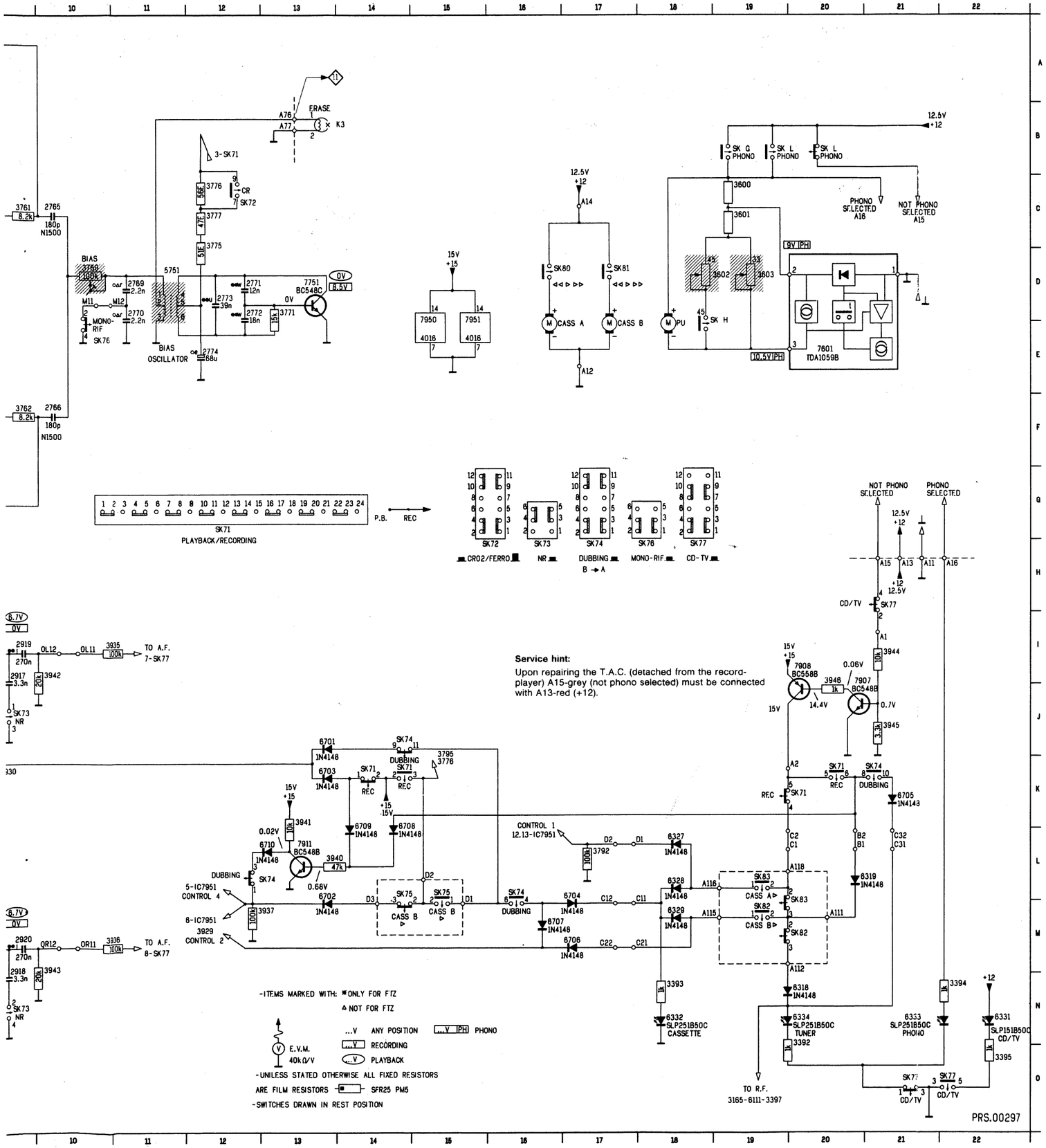
-UNLESS STATED OTHERWISE ALL FIXED RESISTORS ARE FILM RESISTORS SFR25 PM5

-SWITCHES DRAWN IN REST POSITION

Service hint:

Upon repairing the T.A.C. (detached from the record-player) A15-grey (not phono selected) must be connected with A13-red (+12).

PRS.00297



2451	J 3	7751	D13	
2452	N 3	7901	J 3	
2453	I 5	7902	N 3	
2454	M 5	7903	I 6	
2455	J 6	7904	M 6	
2456	N 6	7907	I20	
2751	B 3	7908	I20	
2752	C 3	7909	I 5	
2753	C 3	7910	M 5	
2754	F 3	7911	L13	
2755	D 2	7950	M 9	
2756	D 2	7950	I 7	
2757	B 6	7950	I 9	
2758	E 6	7950	M 7	
2759	D 3	7951	B 8	
2761	C 7	7951	D 8	
2762	F 7	7951	N 8	
2765	C10	7951	J 8	
2766	F10	K3	B14	
2769	D11	PU	E18	
2770	D11	SK H	D19	
2771	D12	SK71	B 2	
2772	D12	SK71	B 2	
2773	D12	SK71	B 2	
2774	E12	SK71	C 2	
2901	J 2	SK71	E 2	
2902	N 2	SK71	E 2	
2903	K 2	SK71	E 2	
2904	O 2	SK71	E 2	
2905	K 4	SK71	B 7	
2906	O 4	SK71	C 7	
2907	H 4	SK71	E 7	
2908	L 4	SK71	E 7	
2909	H 4	SK71	K14	
2910	L 4	SK71	K14	
2911	K 6	SK71	K20	
2912	O 6	SK71	K20	
2917	I 9	SK72	D 7	
2918	M 9	SK72	F 9	
2919	I 9	SK72	F 9	
2920	M 9	SK73	J 9	
2921	H 2	SK73	N 9	
3392	N20	SK74	J14	
3393	N18	SK74	L16	
3394	N22	SK74	K21	
3395	N22	SK75	L14	
3600	C19	SK75	L15	
3601	C19	SK76	E10	
3602	D19	SK77	H21	
3603	D19	SK77	O21	
3751	C 2	SK77	O22	
3752	F 2	SK82	M20	
3753	C 3	SK82	M19	
3754	F 3	SK83	L20	
3755	B 8	SK83	L19	
3756	E 8			
3759	J 7			
3760	N 7			
3761	C 9			
3762	F 9			
3763	C 8			
3764	F 8			
3765	C 9			
3766	F 9			
3769	D10			
3771	D13			
3775	C12			
3776	C12			
3777	C12			
3792	L17			
3793	D 6			
3794	A 4			
3795	D 6			
3796	D 7			
3797	B 7			
3798	D 7			
3799	E 7			
3903	I 5			
3904	M 5			
3905	K 3			
3906	O 3			
3907	K 2			
3908	O 2			
3909	K 3			
3910	O 3			
3911	H 3			
3912	L 3			
3913	H 5			
3914	L 5			
3915	H 5			
3916	L 5			
3917	H 4			
3918	L 4			
3919	H 7			
3920	L 7			
3923	K 7			
3924	O 7			
3925	I 7			
3926	M 7			
3927	I 8			
3928	M 8			
3929	K 7			
3930	K 9			
3931	I 8			
3932	M 8			
3933	I 8			
3934	M 8			
3935	I11			
3936	M11			
3937	M13			
3938	O 2			
3940	L13			
3941	K13			
3942	I10			
3943	M10			
3944	I21			
3945	J21			
3946	I20			
3947	O 3			
3948	E 3			
3949	C 3			
3950	F 3			
5751	D11			
6318	N20			
6319	L21			
6327	L18			
6328	L18			
6329	M18			
6331	N22			
6332	N18			
6333	N21			
6334	N20			
6701	J13			
6702	L13			
6703	K13			
6704	L17			
6705	K21			
6706	M17			
6707	M16			
6708	K14			
6709	K14			
6710	L13			
7601	E20			

Recording and Phono-part

1751

1	0 V	1.5 V
2	0 V	
3	0 V	
4	0 V	
5	⊥	
6	–	
7	0 V	
8	0 V	
9	0 V	
10	⊥	
11	–	
12	0 V	
13	5.3 V	5 V
14	6.5 V	0 V
15	0 V	0.7 V
16	0 V	
17	5.3 V	5 V
18	6.5 V	0 V
19	–	
20	14.5 V	

7601

1	⊥	
2	9 V	PH
3	10.5 V	PH

7751

e	⊥	
b	0 V	
c	0 V	8.5 V

7901

e	0 V
b	0.26 V
c	2.8 V

7902

e	0 V
b	0.26 V
c	2.8 V

7903

e	2.2 V
b	2.8 V
c	7.5 V

7904

e	2.2 V
b	2.8 V
c	7.5 V

7907

e	⊥
b	0.7 V
c	0.06 V

7908

e	15 V
b	14.4 V
c	15 V

7909

e	7.5 V
b	6.9 V
c	7.5 V

7910

e	7.5 V
b	6.9 V
c	7.5 V

7911

e	⊥
b	0.68 V
c	0.02 V

7950

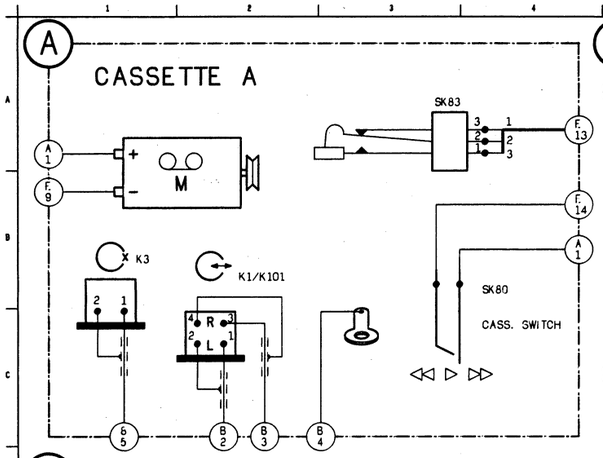
1	6.7 V	0 V
2	6.5 V	
3	7 V	
4	7.5 V	
5	14.5 V	0 V
6	14.5 V	0 V
7	⊥	
8	7.5 V	
9	7 V	
10	6.5 V	
11	6.7 V	0 V
12	14.5 V	0 V
13	14.5 V	0 V
14	15 V	

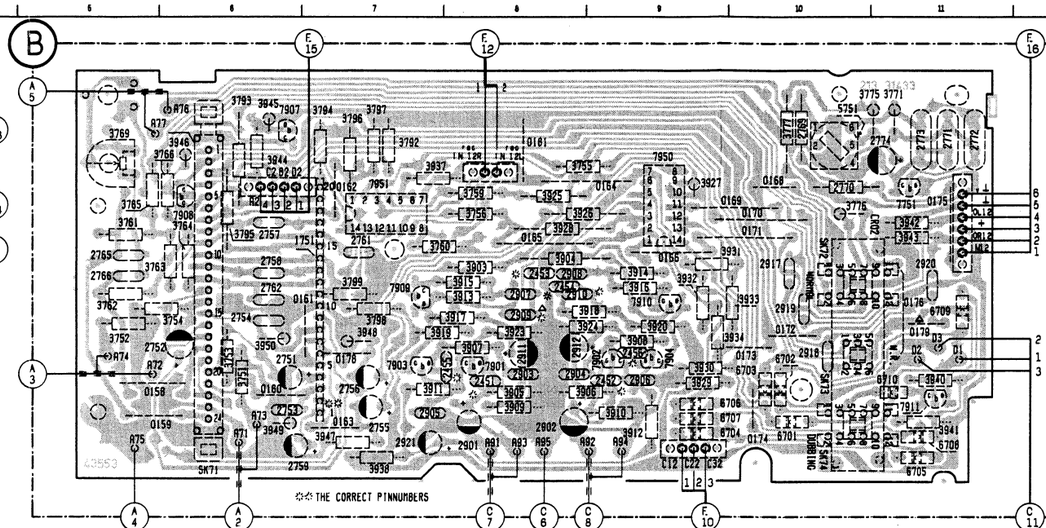
7951

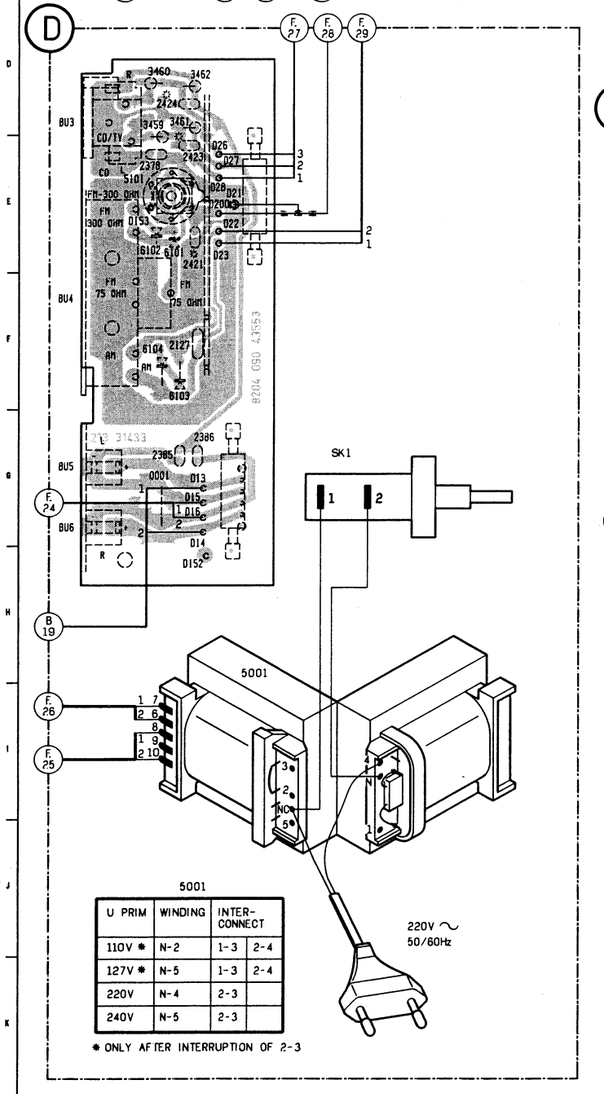
1	6.5 V	0 V
2	6.5 V	
3	7.2 V	
4	7 V	
5	0 V	14.5 V
6	0 V	14.5 V
7	⊥	
8	7 V	
9	7.2 V	
10	6.5 V	
11	6.5 V	0 V
12	14.5 V	0 V
13	14.5 V	0 V
14	15 V	

Service hint:

Upon repairing the T.A.C. (detached from the record-player) A15-grey (not phono selected) must be connected with A13-red (+12).

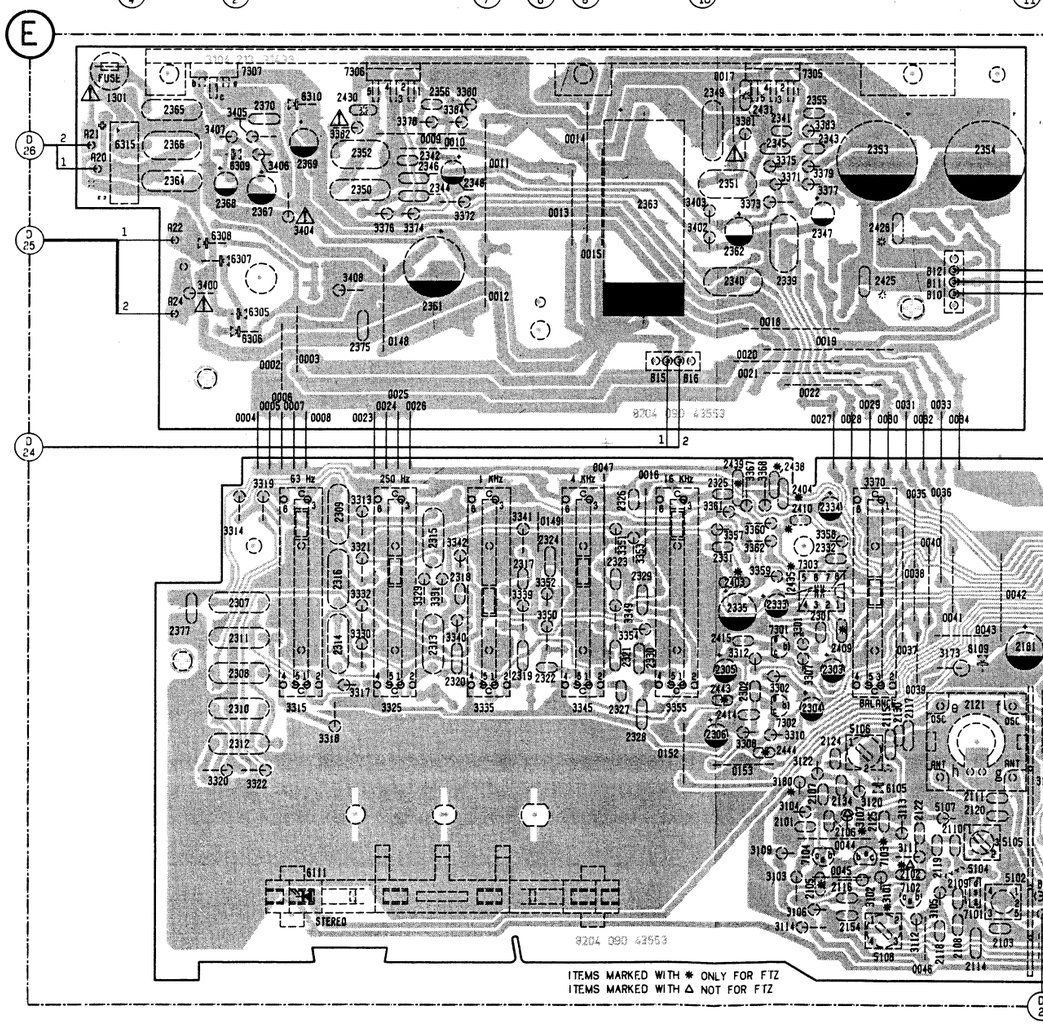






5001

U PRIM	WINDING	INTER-CONNECT	
110V *	N-2	1-3	2-4
127V *	N-5	1-3	2-4
220V	N-4	2-3	
240V	N-5	2-3	



SK83

SK80

CASS. SWITCH

B

43553

☆☆ THE CORRECT PINNUMBERS

C

CASSETTE B

SK82

SK75

M

K2/K102

SK81

CASS. SWITCH

E

FUSE 1301

220V ~
50/60Hz

8204 090 43553

PU HEAD
TO RECORD PLAYER

L R

BLACK

WHITE RED

TO RECORD PLAYER

NOT PHONO SELECTED

PHONO SELECTED

+12

GREY

GREY RED BROWN BLACK

VOLUME

TUNER

PHONO

CD/TV

FM/AM

STEREO

ITEMS MARKED WITH * ONLY FOR FTZ
ITEMS MARKED WITH △ NOT FOR FTZ

F1552/60
PC.PCB.00065
06-13-85 T3

ALIGNMENT

General

- During the alignment, keep the levels of the injected signals as low as possible.
- Alignment of IF stages requires a sweep signal.
  For FM: Apply a 10.7 MHz signal with a sweep of 300 kHz at a frequency of 50 Hz.
  For AM: Apply a 450 kHz (468 kHz) signal with a sweep of 10 kHz at a frequency of 50 Hz.
- Switch SK76 position: stereo.

Equipment required

- RF generator
- Oscilloscope
- DC-millivoltmeter
- AC-millivoltmeter
- Frequency counter

FM–IF

SK switch	signal	to	tune in	DETUNE	adjust	oscilloscope	DC mV meter
FM SK-78	10.7 MHz △f 300 kHz (50 Hz)	◇C		A B		◇2 1 center fo	
	fo=f generator △f = 10 kHz (50 Hz)				5108	◇2 2 symmetrical MAX.	
	10.7 MHz △f 300 kHz (50 Hz) 1 mV				5114 5111	◇3 3 symmetrical	
	10.7 MHz No sweep				5114		DC ◇3 0 V ± 30 mV
				B			

FM-oscillator

FM SK-78	87.63 MHz mod. 1 kHz △f 22.5 kHz	◇D	max. cap. 2121		5106	◇3 max. ~	
	108.0 MHz mod. 1 kHz △f 22.5 kHz		min. cap. 2121		2121e		

FM-RF antenna section

FM SK-78	87.63 MHz mod. 1 kHz △f 22.5 kHz	◇D			5105	◇3 max. ~	
	108.0 MHz mod. 1 kHz △f 22.5 kHz				2121h		
				A			

Stereo-decoder

FM SK-78	No signal				3158	Counter ◇4 19 kHz ± 100 Hz	

Printed in The Netherlands

GB

1 Place the peak of the band-pass curve in the middle of the picture by shifting the sweep frequency.
2 Adjust for maximum height and symmetry.
3 Adjust for linearity and symmetry of the S-curve.
A Switch off A.F.C. by short-circuiting 2137.
B Open solder bridge A.

F

1 En décalant la fréquence de wobulation, placer la crête de la courbe de réponse au centre de l'écran.
2 Ajuster pour avoir une courbe d'amplitude maximale et de bonne symétrie.
3 Ajuster pour avoir une courbe en S de bonne linéarité et de bonne symétrie.
A Mettre la C.A.F. hors service en court-circuitant, le condensateur 2137.
B Ouvrir le pontet A.

NL

1 De top van de doorlaat curve, door verschuiven van wobbelfrequentie, in het midden van het scherm plaatsen.
2 Afregelen op maximum hoogte en symmetrie.
3 Afregelen op lineariteit en symmetrie van de S-kurve.
A A.F.C. uitschakelen door 2137 kort te sluiten.
B Open soldeerbrug A.

I

1 Portare la cresta della curva di risposta al centro dello schermo per mezzo di scivolamento della frequenza di modulazione.
2 Regolare per altezza e simmetria massima.
3 Regolare per linearità e simmetria della curva ad S.
A Mettere il C.A.F. fuori funzionamento cortocircuitando il condensatore 2137.
B Aprire il ponticello A.

AM–IF

SK switch	signal	to	tune in	adjust	oscilloscope	AC mV meter
AM SK-78 MW SK-79	450 kHz △f 10 kHz (50 Hz)	◇A	2121 max. cap.		◇1 1 center fo	
	fo=f generator △f = 10 kHz (50 Hz)			5112 5116	Symmetrical ◇1 MAX. 2	

AM-RF-oscillator

AM SK-78 LW SK-79	147 kHz mod: 1 kHz 30%	◇A	2121 max. cap.	5113		◇1 max. ~
AM SK-78 MW SK-79	1635 kHz mod: 1 kHz 30%		2121 min. cap.	2121f		

AM-RF-antenna section

AM SK-78 MW SK-79	560 kHz mod: 1 kHz 30%	◇B		5103		◇1 max. ~
	1500 kHz mod: 1 kHz 30%			2121g		
AM SK-78 LW SK-79	155 kHz mod: 1 kHz 30%			5109		

Repeat - Herhalen - Répéter - Wiederholen - Ricominciare

D

1 Die Spitze der Du Bildes legen dad verschiebt.
2 Abgleichen auf M

Abgleichen auf L S-Kurve.

GB Electrical mea "Recorder"

A– The maximum p Moreover, the v
– This value shou
B– Connect the Se via one of the lo
– Set the apparat 50 Hz cassette
– With R at the ba minimum variati
C– If the accuracy high quality ferr an alternative.
D– If the adjustmen curve will be sin ≤ 5%).
E– Switch off A.L.C capacitor 2759.
F– Mount a resistor (K102) and A93

F Mesurer electri

A– L'écart de vitess Le taux de pleur de cette mesure
– Cette valeur ne
B– Relier par l'inter haut-parleur la s l'appareil.
– Positionner en r cassette 50 Hz
– Régler grâce à R variation sur l'in
C– Si les exigences tellement élevée de bonne qualité
D– Si le réglage est de fréquence de Fig. 2 (distorsion
E– Mettre la A.L.C. condensateur ch
F– Monter une résis K2 (K102) et A93

GB

1 Place the peak of the band-pass curve in the middle of the picture by shifting the sweep frequency.

2 Adjust for maximum height and symmetry.

3 Adjust for linearity and symmetry of the S-curve.

A Switch off A.F.C. by short-circuiting 2137.

B Open solder bridge A.

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1 En décalant la fréquence de wobulation, placer la crête de la courbe de réponse au centre de l'écran.

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B Ouvrir le pontet A.

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1 Portare la cresta della curva di risposta al centro dello schermo per mezzo di scivolamento della frequenza di modulazione.

2 Regolare per altezza e simmetria massima.

3 Regolare per linearità e simmetria della curva ad S.

A Mettere il C.A.F. fuori funzionamento cortocircuitando il condensatore 2137.

B Aprire il ponticello A.

AM–IF

SK switch	signal	to	tune in	adjust	oscilloscope	AC mV meter
AM SK-78 MW SK-79	450 kHz △f 10 kHz (50 Hz)				1 1 center	
	fo=f generator △f = 10 kHz (50 Hz)	A	2121 max. cap.	5112 5116	fo Symmetrical 1 MAX. 2	

AM-RF-oscillator

AM SK-78 LW SK-79	147 kHz mod: 1 kHz 30%	A	2121 max. cap.	5113		1 max. ~
AM SK-78 MW SK-79	1635 kHz mod: 1 kHz 30%		2121 min. cap.	2121f		

AM-RF-antenna section

AM SK-78 MW SK-79	560 kHz mod: 1 kHz 30%	B		5103		1 max. ~
	1500 kHz mod: 1 kHz 30%			2121g		
AM SK-78 LW SK-79	155 kHz mod: 1 kHz 30%			5109		

Repeat - Herhalen - Répéter - Wiederholen - Ricominciare

D

1 Die Spitze der Durchlasskurve in der Mitte des Bildes legen dadurch, dass man die Wobbelfrequenz verschiebt.

2 Abgleichen auf Maximalhöhe und Symmetrie.

Abgleichen auf Linearität und Symmetrie der S-Kurve.

A A.F.C.-Regelung ausschalten durch kurzschluss von 2137.

B Lötbrücke A öffnen.

"Bei notwendigem Abgleich ist das Gerät auf die gesetzlich vorgeschriebenen Eckfrequenzen abzugleichen".
>87.2 MHz <108.5 MHz.

GB Electrical measurements and adjustments "Recorder"

A– The maximum permissible speed deviation is ±2%. Moreover, the wow and flutter value can be read.
– This value should not exceed 0.35%.

B– Connect the Service cassette set to the apparatus via one of the loudspeaker connectors.
– Set the apparatus to the play back position with the 50 Hz cassette from the cassette service set.
– With R at the back of the motor, adjust for minimum variation of the indicator reading.

C– If the accuracy requirements are less stringent a high quality ferro (normal) cassette may be used as an alternative.

D– If the adjustment is correct the frequency response curve will be similar to curve b in Fig. 2 (distortion ⩽ 5%).

E– Switch off A.L.C. by short-circuiting electrolytic capacitor 2759.

F– Mount a resistor of 20E between point 2(4) of K2 (K102) and A93 (A94).

NL Elektrische metingen en instellingen "Recorder"

A– De hoogst toelaatbare snelheidsafwijking bedraagt ±2%.
Tevens kan bij deze meting de jengelwaarde afgelezen worden.
– Deze waarde mag niet hoger zijn dan 0.35%.

B– Via een van de luidsprekerconnectors het Service-cassettedeel met het apparaat verbinden.
– Zet het apparaat in de weergeefstand met de 50 Hz cassette uit het Service-cassettedeel.
– Met R aan de achterzijde van de motor op minimale variatie van de indicatoraflezing instellen.

C– Als de nauwkeurigheidseisen minder streng zijn, kan als alternatief een ferro-cassette (normal) van hoge kwaliteit gebruikt worden.

D– Als de instelling juist is, zal de frequentiekromme gelijk zijn aan kromme b in Fig. 2 (vervorming ⩽ 5%).

E– A.L.C. regeling uitschakelen door elco 2759 kort te sluiten.

F– Plaats een weerstand van 20E tussen punt 2(4) van K2 (K102) en A93 (A94).

F Mesurer electriques et reglages "Recorder"

A– L'écart de vitesse maximum admissible est de ±2%. Le taux de pleurage pourra également être lu lors de cette mesure.
– Cette valeur ne doit pas dépasser 0,35%.

B– Relier par l'intermédiare d'un des connecteurs de haut-parleur la section cassette Service à l'appareil.
– Positionner en reproduction et faire passer une cassette 50 Hz de la section cassette Service.
– Régler grâce à R à l'arrière du moteur pour que la variation sur l'indicateur soit minimum.

C– Si les exigences du point de précision, ne sont pas tellement élevées, une cassette au ferro (normale) de bonne qualité, pourra également convenir.

D– Si le réglage est correctement effectué, la courbe de fréquence devra être égale à la courbe b de la Fig. 2 (distorsion ⩽ 5%).

E– Mettre la A.L.C. hors service en court-circuitant le condensateur chimique 2759.

F– Monter une résistance de 20E entre le point 2(4) de K2 (K102) et A93 (A94).

D Elektrische Messungen und einstellungen "Recorder"

A– Die höchstzulässige Geschwindigkeitsabweichung beträgt ±2%.
Auch lässt sich bei dieser Messung der Jaulwert ablesen.
– Dieser Wert darf 0,35% nicht überschreiten.

B– Über einen der Lautsprecherkonnektoren den Service-Cassettenteil mit dem Gerät verbinden.
– Mit dem 50-Hz-Cassette aus dem Service-Cassettenteil das Gerät in die Wiedergabestellung bringen.
– Mit R auf der Rückseite des Motors auf Mindest-Schwankung der Anzeigerablesung einstellen.

C– Wenn die Genauigkeitsanforderungen weniger streng sind, kann als Alternative eine Hochstleistungs-Ferrocassette (Normal) benutzt werden.

D– Wenn die Einstellung richtig ist, wird der Frequenzgang gleich der kurve b in Bild 2 (Verzerrung ⩽ 5%) sein.

E– A.L.C. ausschalten durch Kurzschluss von Elko 2759.

F– Einer Widerstand von 20E zwischen Punkt 2(4) von K2 (K102) und A93 (A94) montieren.

(I) Misure e regolazioni elettrische "Recorder"

(A)– La deviazione massima di velocità e ±2%.
Inoltre, può essere rilevato il wow e flutter.
– Questo valore non deve eccedere dello 0,35%.

(B)– Collegare lo strumento di servizio al connettore di uscita di una cassa acustica dell'apparecchio.
– Posizionare l'apparecchio in riproduzione e usare la cassetta test a 50 Hz.
– Regolare la velocità del motore (R), per la minima deviazione dello strumento.

(C)– Per necessità può essere usata una cassetta di alta qualità al ferro (normale).

(D)– Se la regolazione è corretta la curva di risposta in frequenza serà simile alla curva b in Fig. 2 (distorsione ⩽ 5%).

(E)– Mettere il C.A. fuori funzionamento cortocircuitando il condensatore 2759.

(F)– Montare una resistenza di 20E fra il punto 2(4) di K2 (K102) e A93 (A94).

Recorder A and B

Adjustment	Cassette	Recorder in position SK..	Apply signal to	Measure on	Read on	Adjust with	Adjust to
Playback speed Method 1 or Method 2	3150 Hz part of SBC420Fe	PLAY	–	Loudspeaker output or ◇12 (◇13)	Wow and flutter meter	Trimpotmeter R at the back of the motor	(A)
	Test cassette set 801/CCS	PLAY	–	Loudspeaker output	indicator on test set	Trimpotmeter R at the back of the motor	(B)
Azimuth R/P head	8 kHz part of SBC420Fe	PLAY	–	◇12 (◇13)	AC mV meter or oscilloscope	Left screw on R/P head	Max. output
Static playback	–	PLAY (F) only rec B	◇K (◇L) A ◇M (◇N) B 170 mV-315 Hz via 20 kΩ	◇12 (◇13)	AC mV meter > 100 mV	–	
Playback sensitivity	315 Hz-0 dB part of SBC420Fe	PLAY	–	◇12 (◇13)	AC mV meter > 300 mV	–	
BIAS oscillator frequency only rec. A	Any cassette	RIF SK-76 OFF REC+PLAY	–	◇11	Frequency counter	5751	55 kHz
Target value BIAS only rec. A	SBC420Fe side-2 (C)	PLAY	–	◇9 (◇10)	AC mV meter	3769	9 mV
BIAS only rec. A	SBC420Fe side-2 (C)	REC+PLAY	1 kHz ◇R (◇S) (E)		AC mV meter	LF generator	12 mV
			63 Hz 250 Hz 6.3 Hz 10 kHz	Record a number of frequencies (same input voltage)			
	Rewind recording made	PLAY		◇12 (◇13)	AC mV meter		See graph Fig. 1 if necessary repeat adjustment (D)

Record player

Adjustment	Service Manual	Record player position SK			Read on	Adjust with	Adjust to
Speed	F7046	SK-H 33 1/3 rpm 45 rpm			Stroboscope	R3603 R3602	33 1/3 rpm 45 rpm

Electrical measurements and adjustments recorder and record player

General conditions recorder

— Prior to any measurement or adjustment with the tape running, heads and tape guides should be degaussed and cleaned.
— The measurements and adjustments are related to the left-hand channel.
The corresponding test points and adjusting elements for the right-hand channel are given in brackets.
— The voltages have been measured relative to earth.

Required test equipment and test cassettes

— AF generator
— AC mV meter
— Wow and flutter meter
— Multi meter
— Frequency counter
— Cassette service set 801CSS 4822 395 30078
— Universal test cassette SBC420Fe 4822 397 30071

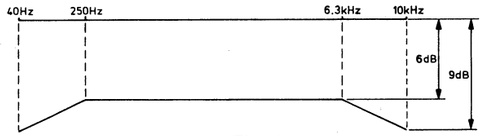


Fig. 1

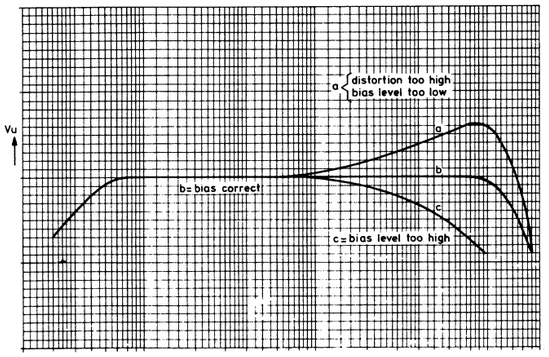
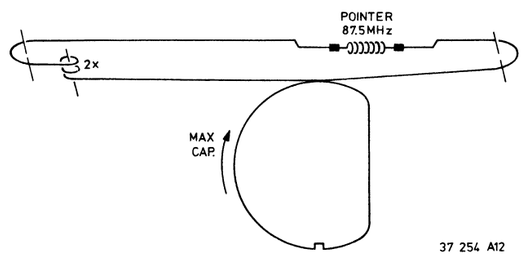
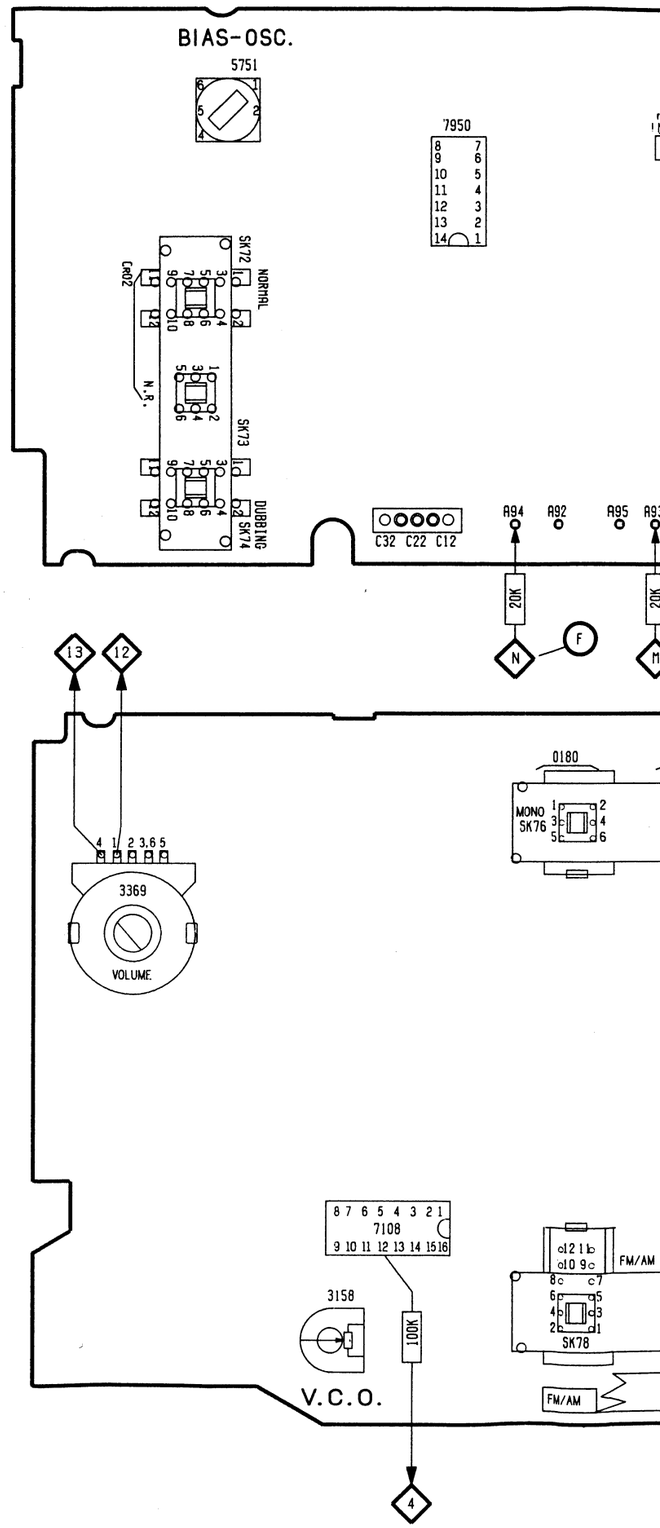


Fig. 2





va di risposta in
in Fig. 2

o cortocircuitando

il punto 2(4) di

Adjust to	
(A)	
(B)	
Max. output	
	55 kHz
	9 mV
	12 mV
	graph Fig. 1 necessary at adjustment
(D)	
Adjust to	
	$33^1/_3$ rpm 45 rpm

Electrical measurements and adjustments recorder and record player

General conditions recorder

- Prior to any measurement or adjustment with the tape running, heads and tape guides should be degaussed and cleaned.
- The measurements and adjustments are related to the left-hand channel.
  The corresponding test points and adjusting elements for the right-hand channel are given in brackets.
- The voltages have been measured relative to earth.

Required test equipment and test cassettes

- AF generator
- AC mV meter
- Wow and flutter meter
- Multi meter
- Frequency counter
- Cassette service set 801CSS 4822 395 30078
- Universal test cassette SBC420Fe 4822 397 30071

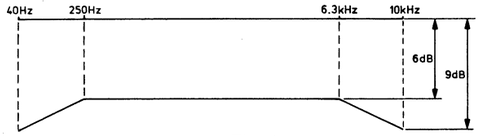


Fig. 1

23 742 A12/A

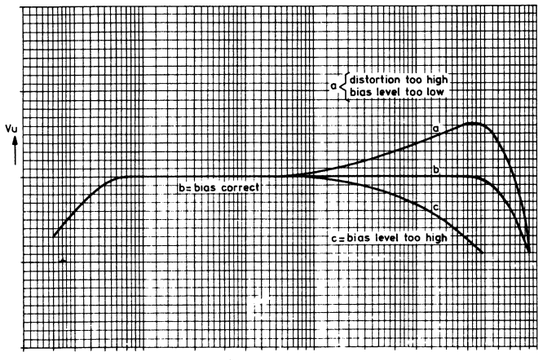
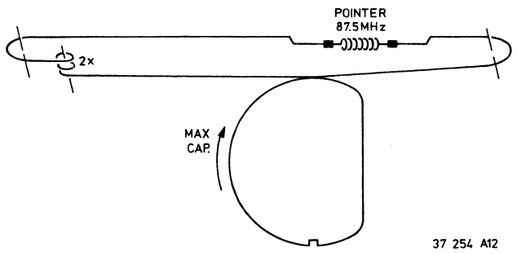
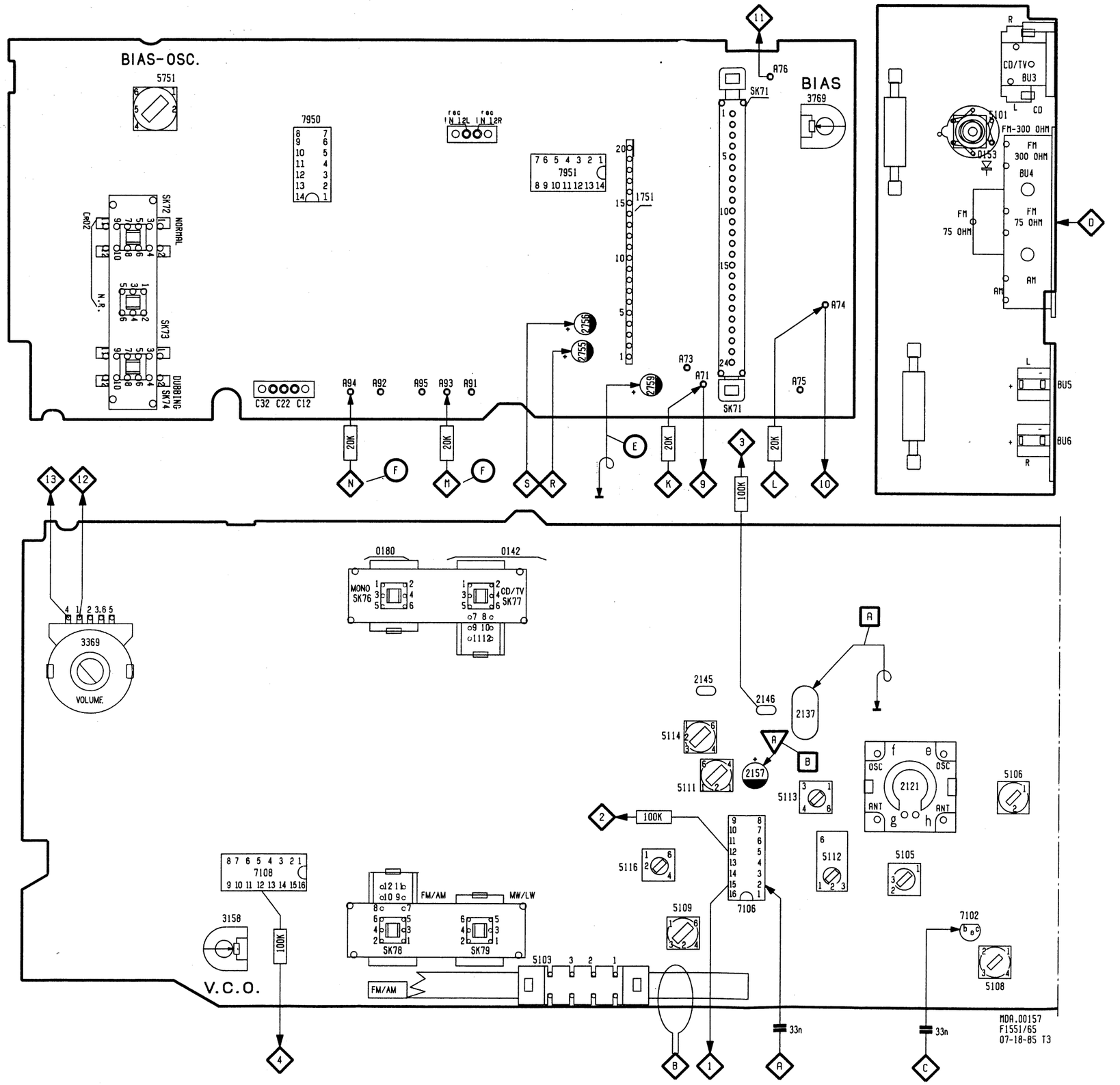


Fig. 2

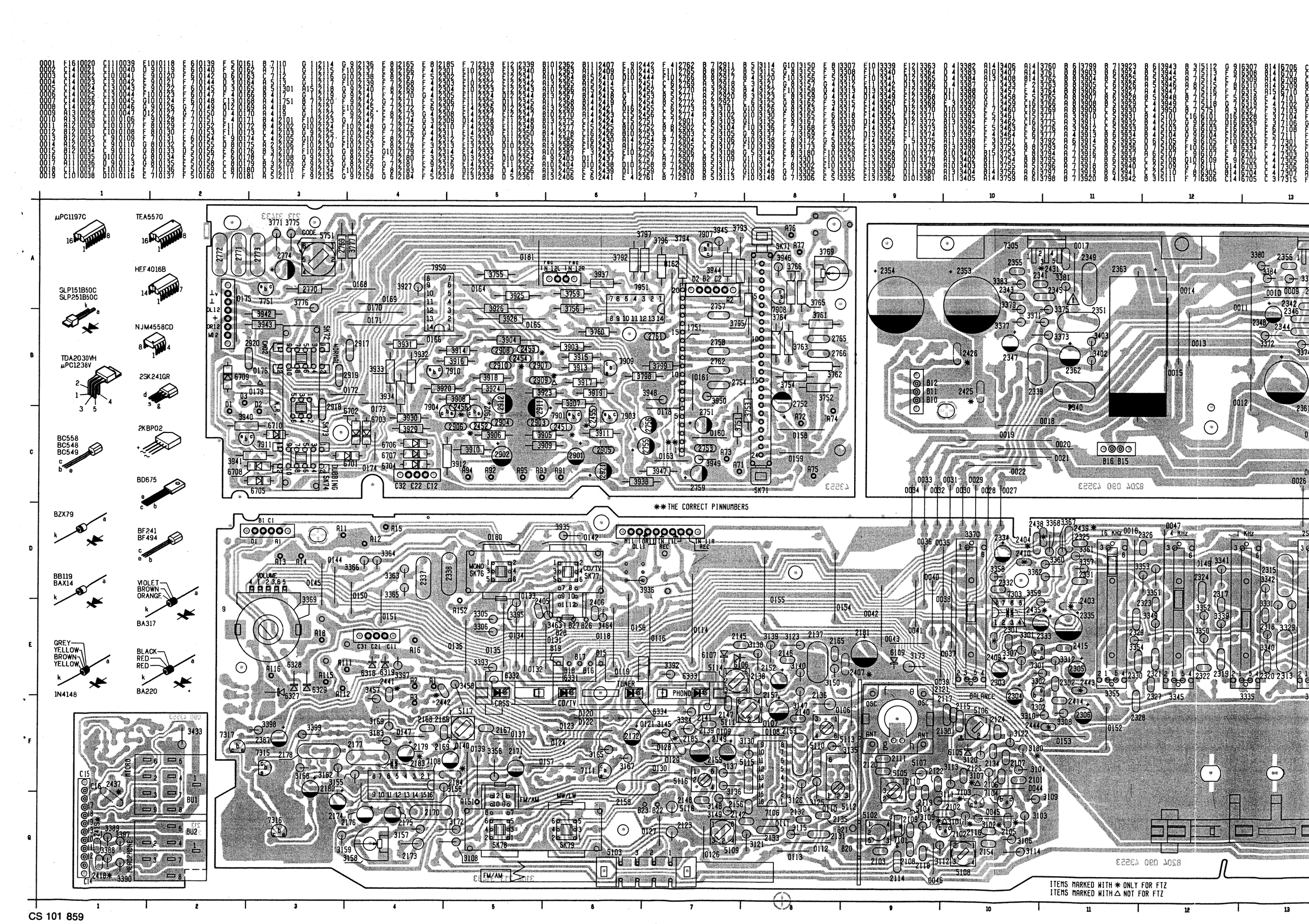
29 476 A12

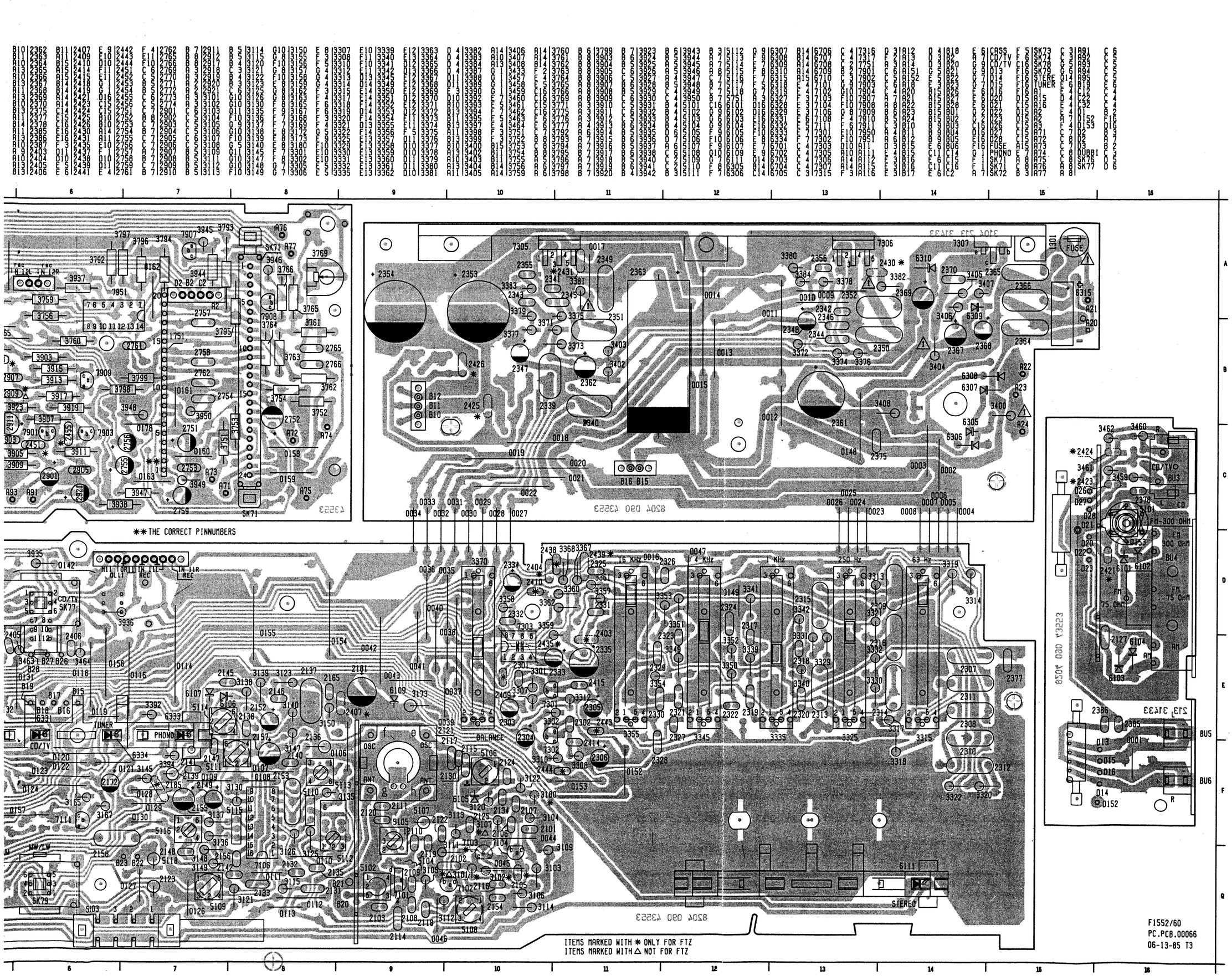


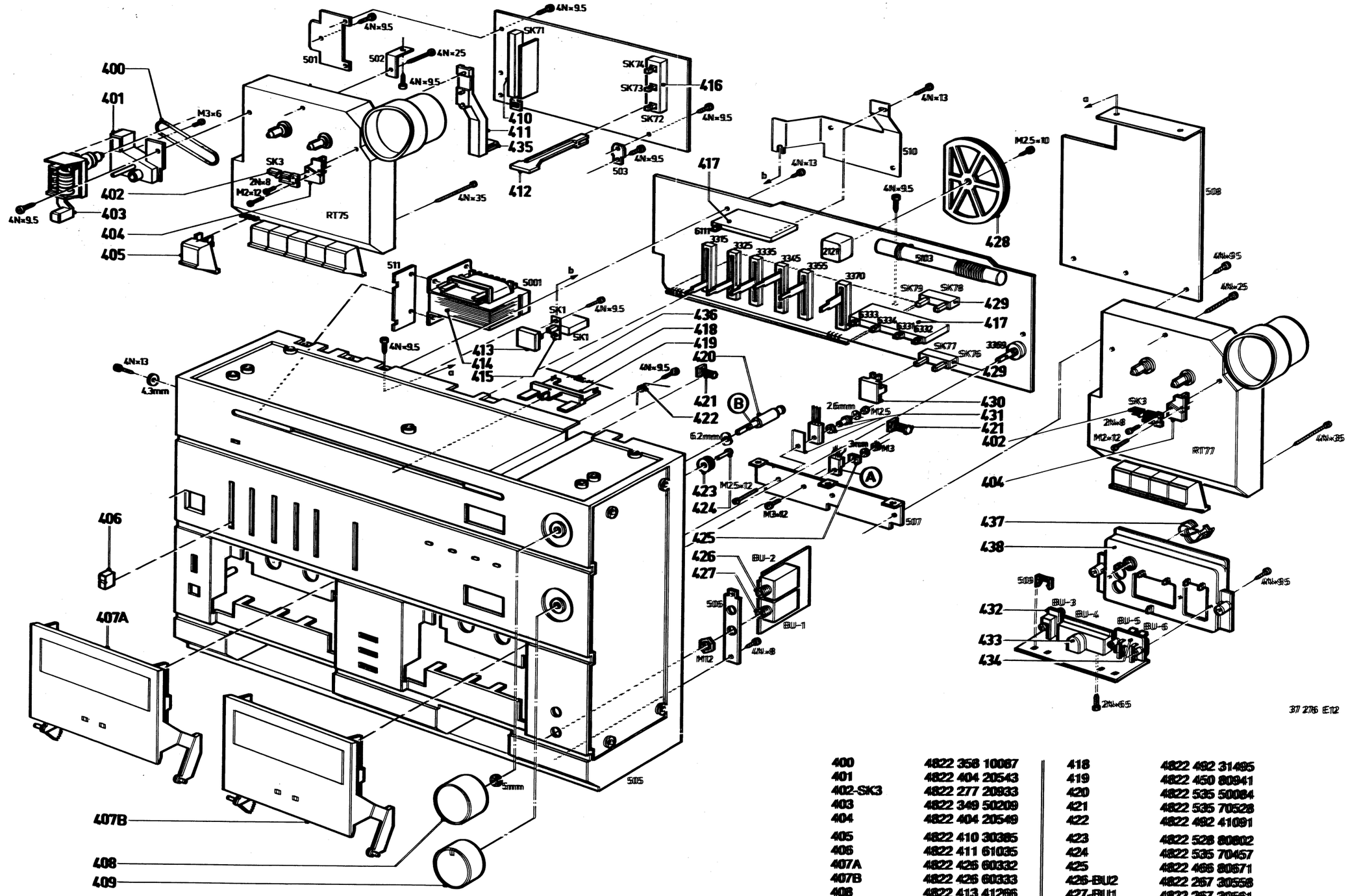
37 254 A12



CS 101 858


µPC1197C
TEA5570
HEF4016B
SLP151B50C
SLP251B50C
NJM4558CD
TDA2030VH
µPC1238V
2SK241GR
2KBP02
BC558
BC548
BC549
BD675
BZX79
BF241
BF494
BB119
BAX14
VIOLET
BROWN
ORANGE
BA317
GREY
YELLOW
BROWN
YELLOW
1N4148
BLACK
RED
RED
BA220
**THE CORRECT PINNUMBERS
ITEMS MARKED WITH * ONLY FOR FTZ
ITEMS MARKED WITH △ NOT FOR FTZ
CS 101 859

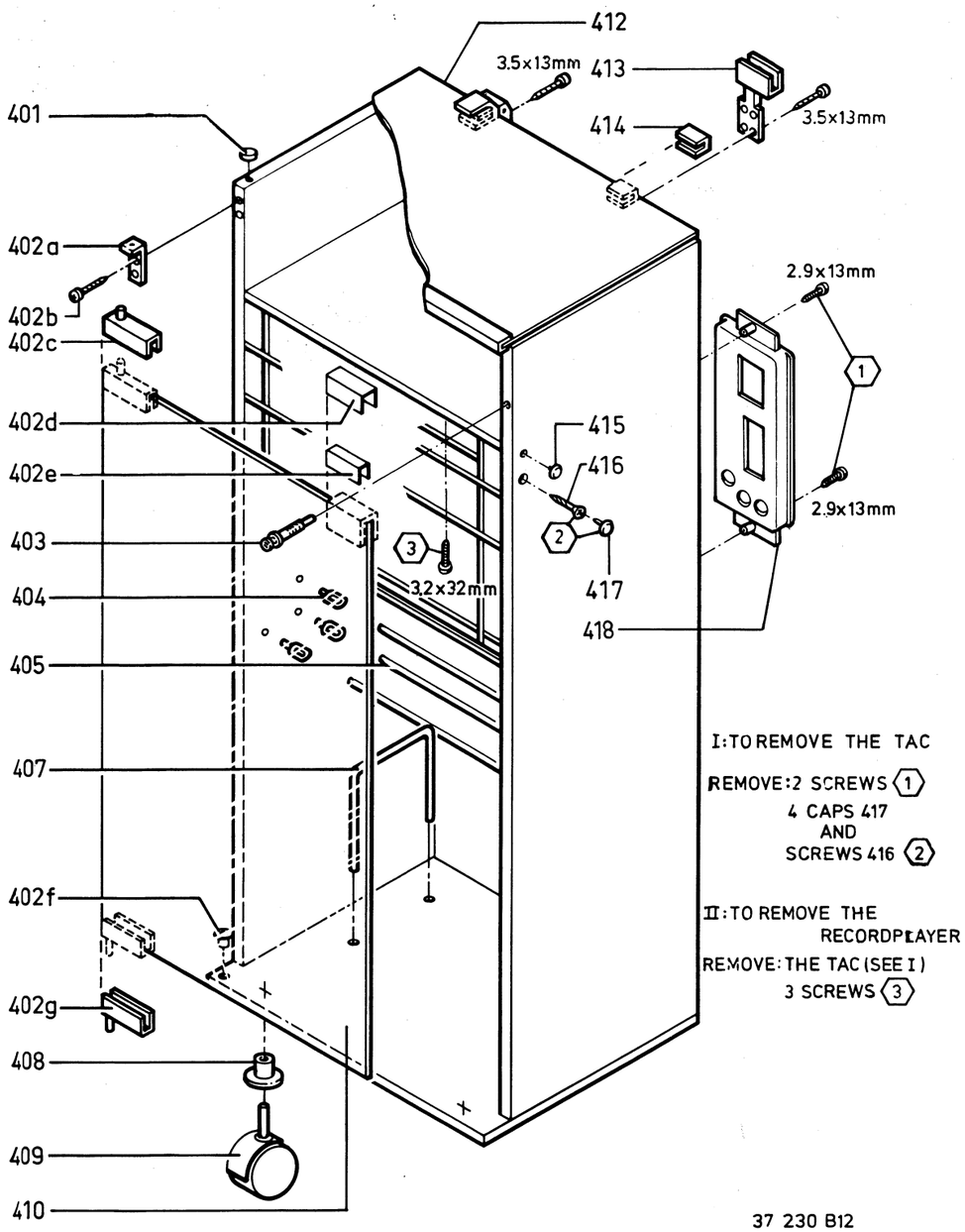

**THE CORRECT PINNUMBERS
ITEMS MARKED WITH * ONLY FOR FTZ
ITEMS MARKED WITH △ NOT FOR FTZ
F1552/60
PC.PCB.00066
06-13-85 T3
TUNER
PHONO
CD/TV
STEREO
FM-300 OHM
FM 300 OHM
FM 75 OHM
AM
BALANCE
OSC
ANT



Ⓐ Silicone grease	5322 390 20019		
Ⓑ Shell Alvania 2	4822 389 10001		

400	4822 358 10087	418	4822 492 31495
401	4822 404 20543	419	4822 450 80941
402-SK3	4822 277 20933	420	4822 535 50084
403	4822 349 50209	421	4822 535 70528
404	4822 404 20549	422	4822 492 41091
405	4822 410 30385	423	4822 528 80802
406	4822 411 61035	424	4822 535 70457
407A	4822 426 60332	425	4822 466 80671
407B	4822 426 60333	426-BU2	4822 267 30558
408	4822 413 41266	427-BU1	4822 267 30561
409	4822 413 41267	428	4822 528 80866
410-SK71	4822 277 30709	429-SK76÷79	4822 276 20325
411	4822 404 20576	430	4822 410 30386
412	4822 410 30426	431	4822 310 30559
413	4822 410 30387	432-BU3	4822 267 30552
413/94	4822 410 24285	433-BU4	4822 265 40145
414	4822 146 21028	434-BU5,6	4822 290 80609
415-SK1	4822 276 11283	435	4822 492 63178
416-SK72÷74	4822 276 30325	436	4822 321 30213
417	4822 255 40374	437	4822 325 50125
		438	4822 464 70341

37 276 E12



37 230 B12

401	4822 462 71344	407	4822 404 20581	413	4822 417 10833
402	4822 310 20347	408	4822 462 71345	414	4822 466 61049
403	4822 417 41004	409	4822 528 70428	415	4822 462 71346
404	4822 462 71359	410	4822 450 60515	416	4822 502 30367
405	4822 535 91832	412	4822 450 60513	417	4822 462 71346

2117	Plate cap. 22 pF N470	4822 122 32076
2120	Plate cap. 27 pF N330	4822 122 31234
2121	Varco	4822 125 50172
2136	Miropoco 365 pF 630 V	4822 121 50803
2138	Plate cap. 82 pF N1500	4822 122 31309
2139	Miropoco 324 pF 630 V	4822 121 50542
2140	Plate cap. 18 pF N1500	5322 122 34146
2145	Plate cap. 180 pF N1500	4822 122 32106
2146	Plate cap. 180 pF N1500	4822 122 32106
2147	Plate cap. 180 pF N1500	4822 122 32106
2166	Plate cap. 82 pF N1500	4822 122 31309
2167	Plate cap. 180 pF N1500	4822 122 32106
2168	Plate cap. 82 pF N1500	4822 122 31309
2341	Plate cap. 100 pF N1500	4822 122 31081
2342	Plate cap. 100 pF N1500	4822 122 31081
2355	Plate cap. 100 pF N1500	4822 122 31081
2405	Plate cap. 150 pF N470	4822 122 32443
2406	Plate cap. 150 pF N470	4822 122 32443
2765	Plate cap. 180 pF N1500	5322 122 34232
2766	Plate cap. 180 pF N1500	5322 122 34232

3158	Potm. trimming 4k7 Lin	4822 100 10036
3315	Potm. trimming 100k Lin	4822 105 10578
3325	Potm. trimming 100k Lin	4822 105 10578
3335	Potm. trimming 100k Lin	4822 105 10578
3345	Potm. trimming 100k Lin	4822 105 10578
3355	Potm. slide 100k Lin	4822 105 10578
3369	Potm. 100k volume	4822 101 20749
3370	Balance	4822 105 10579
3381	Fuse res. 1E NFR25	4822 111 30483
3382	Fuse res. 1E NFR25	4822 111 30483
3400	Fuse res. 1E NFR25	4822 111 30483
3404	Fuse res. 4E7 NFR30	4822 116 52448
3769	Potm. trimming 100k	4822 100 10052

HEF4016B	5322 209 14119
NJM4558CD	4822 209 81054
TDA2030VH	4822 209 82972
TEA5570	4822 209 81563
UPC1197C	4822 209 81544

BAX14	4822 130 34193
BA220	4822 130 34221
BA317	4822 130 30847
BB119	4822 130 31273
BZX79/C16	4822 130 34268
BZX79/C20	4822 130 34499
BZX79/C6V2	4822 130 34167
BZX79/C8V2	4822 130 34382
SLP151B50C red	4822 130 32323
SLP251B50C green	4822 130 32057
1N4148	4822 130 30621
2KBP02-7001	4822 130 50363

BC548	4822 130 40938
BC548B	4822 130 40937
BC548C	4822 130 44196
BC549B	4822 130 40936
BC549C	4822 130 44246
BC558B	4822 130 44197
BD675	5322 130 44786
BF241	4822 130 40898
BF494	4822 130 44195
BF494B	4822 130 41376
2SK241GR+Y	4822 130 42217

5001	Mains transformer	4822 146 21028
5101	Aerial Trafo L-2M7-D	4822 148 80183
5102	Aerial Trafo Sym.	4822 157 51233
5103	Ferroceptor	4822 158 60515
5104	Coil	4822 156 10641
5105	Coil RF	4822 157 51693
5106	Coil Osc.	4822 157 51618
5107	Coil 0.47 µH	4822 157 50967
5108	Coil IF 10.7 MHz	4822 153 50206
5109	Aerial Trafo LW	4822 156 30564
5110	Res. cer. 10.7 MHz	4822 242 70249
5111	Coil FM	4822 157 51615
5112	Filter IF 450 kHz	4822 157 51617
5113	Coil Osc. AM	4822 157 51616
5114	Coil FM 10.7 MHz	4822 153 50208
5115	Res. Cer. 10.7 MHz	4822 242 70249
5116	Coil IF AM	4822 157 51708
5117	Coil	4822 157 51842
5118	Coil	4822 157 50964
5751	Coil Osc.	4822 156 20946

Miscellaneous

1301	Fuse T 3.15A Wickman	4822 253 10048
1751	Cass. Rec. CRE-3	4822 218 10158
F	Thermal fuse for mains transformer	4822 252 20007

(GB)

Safety regulations require that the set be restored to its original condition and that parts which are identical with those specified be used.

(NL)

Veiligheidsbepalingen vereisen, dat het apparaat in zijn oorspronkelijke toestand wordt teruggebracht en dat onderdelen, identiek aan de gespecificeerde, worden toegepast.

(F)

Les normes de sécurité exigent que l'appareil soit remis à l'état d'origine et que soient utilisées les pièces de rechange identiques à celles spécifiées.

(D)

Bei jeder Reparatur sind die geltenden Sicherheitsvorschriften zu beachten. Der Originalzustand des Geräts darf nicht verändert werden; für Reparaturen sind Original-Ersatzteile zu verwenden.

(I)

Le norme di sicurezza esigono che l'apparecchio venga rimesso nelle condizioni originali e che siano utilizzati i pezzi di ricambiago identici a quelli specificati.